

**Joy of
Knowledge**

**History:
Ancient world
to 18th century
1153 – 1536**

The tools of history

In his search for knowledge of the past, the historian uses various sources. The earliest historians relied largely on eye-witnesses, hearsay and word-of-mouth tradition. But England's first true historian, the Venerable Bede (673-735), also used written documents. Historians today extend their search even more widely. Government records for taxation and parish records tell about economic affairs. Art and poetry reveal cultural and spiritual life. Place-names show what diverse peoples have come to form a nation. Archaeology exposes many aspects of both rural and urban life that are described in no documents. And for the long prehistoric era leading up to the invention of writing, archaeology provides the only evidence.

Written records of King Arthur

The historian of early times often has to learn to use documents compiled long after the events they describe, or which copy, perhaps inaccurately, records that were contemporary. Or he may find legends and traditions wrapped round a kernel of fact, so that he has to peel off later fictions from a central truth.

A good example of the many tools used by historians to decipher fact from the most obscure evidence is the search for a historical basis of the semi-legendary King Arthur. In the period after the collapse of the Roman Empire in the fifth century AD, Anglo-Saxons from the far side of the North Sea and Scots from Ireland seized much of Britain from the native Britons and Picts, and in doing so created the basic racial mix of the British people. Our primary source for the recording of these events, the sixth-century British monk Gildas, describes a wholesale slaughter of the Britons by the pagan Saxons.

Gildas also records a great British victory over the invaders at Mount Badon [8], a battle that came to be associated with the name of Arthur. Most people think of Arthur as the idealized chivalrous king described by Thomas Malory in *Le Morte d'Arthur* (1470), or *The Idylls of the King*, by Alfred, Lord Tennyson (1809-92), or in even later versions of these romantic tales. It is often assumed that such a figure must be mythical.

But by his study of the sources the historian can remove successive layers of romance

to reach the historical truth. Arthur was first described as a great emperor in the twelfth century in the *History of the Kings of Britain* by Geoffrey of Monmouth (c. 1100–54). Three centuries earlier the British writer Nennius represented Arthur as the war-leader of the Britons against the Saxons [1]. In his own day, records kept in a Welsh monastery refer to the victory of Badon, (now thought to have been fought c. 490), and to Arthur's death along with Mordred's at the battle of Camlann.

This establishes Arthur as an historic personage – a great warrior, although not a king, who defended Britain against the Saxons. This is all the written documents can tell us. For further information we have to rely on the findings of the archaeologist.

The techniques of archaeology

Archaeology studies the physical remains of the past, and so gains insight into the material culture and living conditions of the characters of history. If documents prove that Arthur was a great war leader, then archaeology can show the kind of base that he may have

1 Medieval manuscripts were handwritten, and errors or extraneous ideas might occur during later copying. This 9th-century account of the 12 battles that Arthur is said to have fought is by the Welsh monk Nennius, and is thought to have been a summary of an early Welsh poem of which no other record exists. None of the battle sites can be located with certainty, and the description of the battle at Mt Badon "in which 960 enemy fell in a single attack by Arthur" shows how the inflation of Arthur into a superhuman hero was under way by the time of Nennius. Arthur is called "leader of battles" for the British kings, a statement more likely to have been factual.

[illegible]

2 Cadbury Castle, Somerset, has been identified with Camelot, Arthur's court, since at least 1540. But in fact Camelot was simply the invention of 12th-century poets. Archaeological excavation, however, shows that Cadbury might instead have been the strong base or rallying point that Arthur needed to defend Britain against the Anglo-Saxons. The hill-fort had been first built c. 500 BC, but was refortified with a stone and timber rampart and gates that can be dated to AD 480-540, the years in which Arthur flourished. The fort was strategically situated to resist any westward drive of the Anglo-Saxons from Wessex towards the Bristol Channel.



Stratification, the overlaying of earlier buildings by later ones, provides the basic clues by which archaeologists unravel the story of the past, particularly for a complex defensive system such as at Cadbury Camelot. Illustrated here is a

schematic representation of the side of a trench excavated through the innermost of the four banks of the hillfort. At the base is the ground surface where the first Iron Age defence was built c. 500 BC. Below this was found pottery of the late Bronze Age.

c. 1000 BC. The Iron Age Rampart I had a frame of wood that soon decayed, making it necessary to build Rampart II. This also collapsed and was followed by two other ramparts. The last, Rampart IV, was destroyed by the Romans in AD 45–61. After

being abandoned for a long time, a new bank rampart was built. This was overlaid by a Late Saxon town wall about AD 1010, so it must be earlier than that, but later than the Iron Age. Contemporary pots suggest the date 480-550, the period of Arthur.

4 Tintagel Castle, Cornwall, on a superbly defensible headland, was built in its present form in the 12th

century. It has been linked with Arthurian legend since the work of Geoffrey of Monmouth, but probably

was used in Arthur's day as a Celtic monastery. Mediterranean style pots of that period have been found there.



fortified [2, 6], and the weapons, jewellery and equipment that his followers used.

A wide armoury of techniques is used to discover ancient sites, including walking the countryside, air-photography which gives a map-like view of sites [2, 4, 7], and geophysical prospecting to reveal ancient fireplaces, rubbish pits and other disturbances of the ground. Excavation is a precisely controlled process that seeks to recover the faintest traces of collapsed or decayed buildings [6].

For dating, the archaeologist traditionally relies on stratification [3], or layering, to reveal how later buildings lie on top of earlier ones; and typology [5] which compares developing types of the same class of object. The techniques of typology are familiar to anyone who can estimate the date and make of a motor car by its appearance.

Dating archaeological finds

In historical periods, written references to sites, inscriptions, and dated coins, all help to establish chronology. Stratification and typology can only establish the relative age of sites and objects; not how old they are in

absolute years. For this several scientific techniques have been developed. Some of these depend on radioactive decay, measuring the extent of the decay of the radioactive carbon present in all living things.

Another practice, that of tree-ring dating or dendrochronology, studies the annual growth rings of trees. The width of the rings varies from year to year in a distinctive rhythm. Counting back from the present, it is possible to match early phases of the rhythm on living trees with that on timber beams in ancient buildings. The tree-ring count may be extended backwards for thousands of years.

These techniques are most useful in pre-history, but they can also be applied to historic times. A clear example of this is the dating of the Winchester Round Table [Key]. Typological study of the carpentry suggests a date in the mid-fourteenth century. Radiocarbon and tree-ring dates are consistent with this. Our historical knowledge of the growth of chivalrous ideals points to the same period. The table is part of the Arthurian legend; but it tells us nothing about the historic war leader of the Britons.

KEY



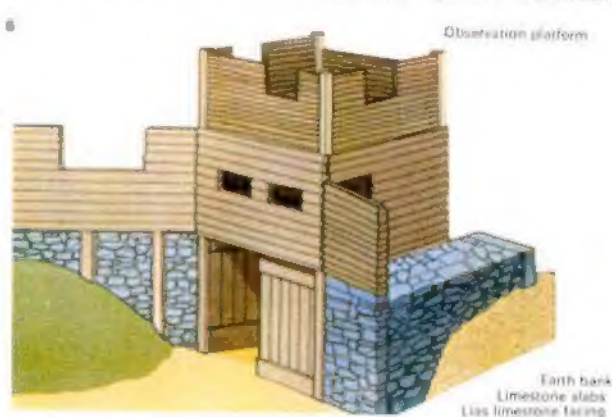
The Winchester Round Table can be shown, using historical tools,

to have been made almost 1,000 years later than the period of

the real King Arthur. History thus separates fact from fiction.



5 The study of pots is central to the archaeologist's interpretation of the past. These reconstructed two-handled jars, (A, B) found at Cadbury, each about 50 cm (20 in) tall, once contained Mediterranean wine for church services and princely feasts. The red dish (D) was also from the Mediterranean. Other pots have crosses inside the bowls and may have had a liturgical use. The grey bowl (C) came from Bordeaux, perhaps with wine in wooden casks. Such pots found on sites in Britain reveal trade links and are important for dating, because in Greece similar pots can be dated by coins found with them, and these dates can then be transferred to the British sites.



6 Reconstructions of the buildings can be attempted from the archaeologist's study of the foundations, as in this gateway and rampart of the Arthurian period at Cadbury Castle. The remains consisted of the

lower stones of the wall face; the pits in which the timber posts had stood; and dark stains in the ground where wood had rotted. If the tower has been correctly restored, its design may copy that of

Roman military gate towers. But the rampart itself, with its use of timber and unmortared stone is very primitive. It reveals the sharp decline of technology in the post-Roman centuries.

7 Glastonbury, Somerset, has many ancient legends. In 1191 monks at Glastonbury Abbey claimed to have found the tombs of Arthur and his wife Guenevere. All trace of these tombs subsequently disappeared. The claim attracted great interest at the time, when the legend of Arthur was beginning to spread beyond purely Welsh legend. Although it may have been made to attract visitors to the monastery to contribute to a building programme, it is possible that the pair were indeed buried in the grounds of the Celtic monastery that originally occupied the site. Mediterranean wine jars of the 5th and 6th centuries have been found on Glastonbury Tor, (shown here), about 20 km (12 miles) north-west of Cadbury.



8 Places linked with Arthur (historic or legendary), are widespread in Britain. Most of the names connected with Arthur or with King Mark and Tristan (Trusty) have no genuine historical significance. They show a popular habit of naming ancient ruins after long-dead heroes. But Mote of Mark and Cadbury Castle both have produced pottery of c. AD 500 and were fortified in Arthur's period – the 5th and 6th centuries. Killibury is probably Arthur's court of Celliwig, that was mentioned in early Welsh traditions. At least six sites are suggested, on place-name grounds, as possible locations for the historic battle of Mt Badon, Arthur's most important victory. The most probable is a hill near Bath.



The art of prehistory

Man's aesthetic sense seems to have developed recognizable forms of expression about 30,000 years ago, as the modern form of man, *Homo sapiens sapiens*, annihilated, displaced or absorbed *Homo sapiens neanderthalensis*. The detectable differences between these two sub-species of human being are confined to a heavier bone structure in Neanderthal man, who was otherwise as upright and large-brained as modern man. But other differences in behaviour and adaptation to the environment can be guessed at from archaeological evidence; a predisposition to create art is one of them.

The "childhood of art"

With few exceptions, all of the world's earliest art is associated with the hunting economy of *Homo sapiens sapiens* [Key]. Neanderthal man had developed ritual, perhaps religion, and the practice of ceremonial burial of his dead, but had not developed a way of expressing himself pictorially in a lasting medium. Nevertheless the earliest art, which is found in caves in southwestern France and northeastern Spain, is of some

sophistication. When the art of this Upper Palaeolithic period (35,000–10,000 years ago) was first discovered, in 1875, it was received with incredulity. "It is the childhood of art, but not the art of a child", said one eminent French archaeologist, and until 1900 many regarded it with suspicion. Marcelino de Sautuola (died 1888), the discoverer of the great halls of Altamira in northern Spain, was charged with having forged the paintings and it was not until other paintings were discovered in the French sites of Pair-non-Pair and La Mouthe, concealed beneath Palaeolithic cultural deposits, that the sceptics were forced to recant.

The man who finally demonstrated the antiquity of Palaeolithic art was Abbé Henri Breuil (1877–1961). The evidence for Palaeolithic art is more or less confined to western Europe, although isolated sites such as Kapova in the Urals of Russia, Levanzo in Sicily and Beldibi and Belbasi in Turkey exist; and a lively tradition of rock art in northern and Saharan Africa at places such as Tassili N'Ajjer [5, 6] continues down into the Neolithic period (5,000 years ago).

Palaeolithic art is divided by archaeologists into two major categories – parietal, consisting of paintings, engravings and sculptures on the roofs, walls and floors of caves from which they cannot be removed, and mobiliary, consisting of small portable objects. To the archaeologist each type has its advantages and its frustrations: cave art, while often undated, is in its original position and context, while mobiliary art is often in well-dated archaeological layers but without any context that might shed light on its use. Mobiliary art consists of single isolated figures; cave art of many adjacent figures, sometimes related to each other.

Distribution of cave art

Cave art is confined to a small area of France and Spain: the Dordogne valley, the high Pyrenees and the Cantabrian mountains. More than 100 caves are known, including such famous sites as Lascaux [1], Altamira, Les Trois Frères, Montespan and Font de Gaume. In few of these, however, is the art firmly dated except by its style, and the art at Rouffignac has long been suspect.

CONNECTIONS

See also
Beginnings of
Agriculture
The Sumerians
4000 – 2000 BC
Stone Age Britain



1 The famous animal paintings in the cave of Lascaux are in a style similar to the parietal art found at many other sites in the Dordogne district of France. The cave was found accidentally in 1940 by a group of boys who were out with their dog and is one of the most recent of Palaeolithic cave art finds. Most of the animals in this portion of the Lascaux paintings are aurochs or European bison (*Bos primigenius*) which became extinct in Poland in the 17th century. They are drawn so that all four legs and both horns are visible.

2 A wall of the cave of Pech-Merle in France shows two spotted horses with more spots surrounding them and heads and necks in solid colour. The bodies are full, the limbs attenuated, a feature of much Palaeolithic art. The two horses overlap and were clearly painted at different times, but whether hours or centuries apart is not known. There are also hand prints made by blowing powdered pigment around a hand held on the wall.

lithic art. The two horses overlap and were clearly painted at different times, but whether hours or centuries apart is not known. There are also hand prints made by blowing powdered pigment around a hand held on the wall.

3 The small limestone figurine known as the "Venus of Willendorf" from a Gravettian site in Austria is 20,000 to 25,000 years old. The large breasts, belly and buttocks are typical of this form of mobiliary art.



4 Engraved figures from the cave of Ad-daura in Sicily show humans in a variety of poses; overlapping suggests that they

were not all done together. Engraving, with painting and low relief sculpture, is characteristic of the Upper Palaeolithic.



On present evidence the earliest dated site is that of La Ferrassie, where painted blocks were found in Aurignacian culture levels dating from about 29,000 years ago. Other paintings and engravings and bas-relief sculpture were found in higher Aurignacian levels and thus the three major techniques of parietal art are all found from the earliest period onwards. Sites such as Pair-non-Pair may date from the late Aurignacian or the early Gravettian period about 25,000 years ago, while Gargas in the Pyrenees is definitely Gravettian, as also is the site at Laussel.

The brief Solutrean culture, confined to the same area as the cave art and noted for its superb flint work, has art at Le Roc de Sers. A reindeer-hunting final Palaeolithic phase in western Europe, the Magdalenian, gave birth to the astonishing polychrome paintings of Altamira. It has been suggested that most of the cave art sites are of this last period.

Mobiliary art is also found from the Aurignacian onwards, as an adjunct to the increasing use of bone and antler for tool-making. The best-known class of object is

that of "Venus" figurines, stylized females with the buttocks and belly overemphasized and the head and legs reduced to stumps. The Willendorf Venus [3] is more individual than most. The Venuses date mainly from the Gravettian and like it are distributed through eastern Europe, even as far as Siberia. Their gross features may be the expression of some artistic scheme of proportions, rather than simply reflecting interest in woman's fertility.

Art or magic?

A number of explanations have been advanced for cave art, the simplest of which is that it is "art for art's sake". The theory of Breuil, accepted for many years, was that it was connected with obtaining magical power over the animal hunted by drawing it and also with the totemic association of man and animal species. More recent suggestions that the paintings may be sexually symbolic have not found wide acceptance. Some scholars are using comparisons with the more recent rock art of the Kalahari and the Australian Aborigines to cast further light on the mind of prehistoric man.

KEY



A group of warriors, hunters or dancers ornament a cave called Cingle de la Mola Remigia in the Gasulla Gorge of Castella province.

Spain. The naked figures of running men are painted in a monochrome grey. Each man carries a longbow and a sheaf of

arrows — standard hunting (and presumably also fighting) equipment during the late glacial period when this cave was decorated.



5 These striding men are painted on rock in the Tassili plateau of Algeria in the heart of the Sahara Desert. The figures themselves are shown in solid colour and attention is focused on the decoration

covering their limbs and bodies, probably representing body-painting with natural pigments such as is still practised by the Nuba of Sudan. Body art may well have existed in the Palaeolithic period.

6 Tassili art persisted into the Neolithic period or later, after the camel had been domesticated, as is shown by this painted scene on the wall of a cave in the Tassili Plateau at the site of Ir tinen.

The figures in solid red depict a camel caravan and its drovers and the camels include both loaded adult animals and, at the lower left of the paintings, what appear to be younger camels.



7 These small amber carvings, including a stylized rendition of a bear, are from Siberia. Amber, a fossil resin found mainly on the shores of the Baltic Sea, was used by man from the Mesolithic period of 10,000 years ago onwards.

8 A shrine dating from 6000 or 7000 BC has been reconstructed at the Anatolian Neolithic site of Catal Hüyük. This site has claims to being one of the world's earliest towns, with a population of several thousand. During ex-

cavations, many animal shrines dedicated to the herds on which the economy depended were found, decorated with elaborate paintings and modelled reliefs. The shrines and most of the houses seem to have been entered through the roof.

9 Rock engravings found in the Val Camonica, northern Italy, date from the Bronze Age. Some of these open-air carvings, which are pecked into smooth glaciated rock surfaces, show elaborate scenes, including chieftains in proces-

sion. This example (filled with coloured pigment to assist photographic visibility) depicts three reindeer and two schematic human figures. The significance of these scenes is unknown and the variety suggests many motives.



10 Scandinavian rock engravings from Bohuslan and Grevenvaenge in Denmark are similar in technique to the Val Camonica carvings, and of even later date. They depict a longship [A] with three human figures or perhaps a mast

and steering oar as well, and two warriors in great horned helmets brandishing battleaxes [B]. The presence of a smooth rock surface presented an irresistible challenge to prehistoric graffiti artists throughout Europe and in Asia Minor.

Beginnings of agriculture

Until the Neolithic or New Stone Age the domestication of plants and animals was little practised. Agriculture developed at different times and rates in different places, and took various forms: plant-cultivation, pastoralism and mixed farming. Although the switch from total dependence on food gathering to the beginnings of food production was a gradual evolution, its long-term effects were nothing short of a revolution. Every food plant and animal of importance today was domesticated during the Neolithic.

The first farmers and herdsman

Early in the eighth millennium BC cereals were cultivated and animals herded between latitudes 30° and 40° N, over an area stretching for a thousand miles from Anatolia to Iran [1]. This region offered a variety of wild plants and animals that could be domesticated. Early man found wheat and barley growing on the uplands, and goats [4] and sheep grazing on the slopes. Indeed, the wide variety of ecological zones and natural resources would have enabled hunters, fishermen and foodgatherers to live a semi-

sedentary life even after the end of the last Ice Age, about 8000 BC.

Initially the growth of agriculture and herding was slow and haphazard. Wild grain would have been collected and dropped round the settlement and hunters probably captured young animals and brought them home. In these early stages of farming it is not easy to distinguish between wild and domesticated flora and fauna. Animals evolved smaller forms and there were gradual changes, for example in the size and shape of horns. From the number of bones unearthed at Zawi Chemi Shanidar in northern Iraq, it seems that sheep may have been herded on the Iranian plateau as early as 8500 BC and goats not long after.

Evidence of cereal cultivation is harder to prove; cereals are preserved only in exceptional circumstances. Grain carbonized as a result of fire, or impressions left in clay ovens or storage pits, are often the only clues that remain. However, it is known that selection, promoted by some significant mutations, resulted in higher-yielding grain. Some of the evidence provided by Neolithic sites may be

purely circumstantial - the discovery of sickles need not necessarily imply cultivation. Experiments in Anatolia using stone-bladed reaping knives [5] showed that one family would have been able to collect enough wild wheat during three weeks' work to provide for them for a whole year.

Early Neolithic settlements

Most of the early Neolithic sites were located near springs and were occupied for thousands of years. Enormous mounds or "tells" accumulated from the remains of mud-brick houses and generations of rubbish provide archaeologists with a rich store of information. One of the most thoroughly investigated sites is Tell es Sultan at Jericho, which must have housed as many as 3,000 people during the "Pre-Pottery" Neolithic period around 7000 BC. Catal Hüyük in Anatolia, the largest known trading centre, was four times the size of Pre-Pottery Jericho by 6000 BC and may have been a sizeable settlement much earlier, although the earliest levels have not yet been excavated. It probably had a monopoly of nearby sources of obsidian,

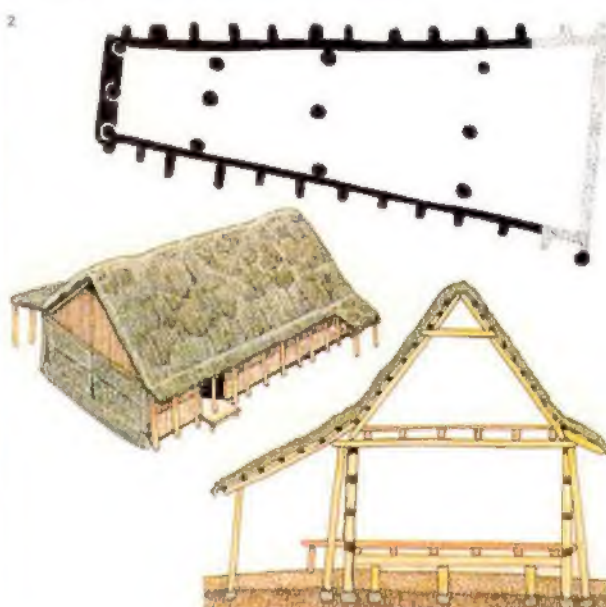
CONNECTIONS

See also
The art of prehistory
The Sumerians
4000 - 2000 BC
Stone Age Britain



3 Tassili N'Ajjer, an 800km-long (500 miles), eroded sandstone plateau in the Sahara, contains tens of thousands of rock paintings and engravings. The cattle and wild animals that flourished in the equable climate about 3000 BC are superbly depicted, but no other evidence exists to help identify the ancient inhabitants of this region.

2 The longhouses of central Europe and Scandinavia are known of from the first half of the 5th millennium BC. The one shown here is a reconstruction of an excavation at Deiringsen-Ruploh in Westphalia. It was just over 16m (52ft) long, about 8m (26ft) wide and the same in height. Long houses were normally rectangular, but the trapezoidal shape (as here) seems to have been a recognized variant. Many longhouses appear to have been divided in two, but whether this was to separate living quarters from storage is not known. The buildings were constructed on a timber frame.



4 The bezoar (*Capra hircus aegagrus*), the wild ancestor of domesticated goats, still lives in the mountains of south-western Asia. Goats and sheep were kept in herds before 8000 BC, the first animals to be domesticated.



5 Grain was first harvested with sickles made from stone insets in a bone or wooden shaft. This example comes from the Fayum, Egypt.



the chief material for tool-making; copper and marble were also obtained from the mountains and shells from the Mediterranean. Pottery, weaving and other arts and crafts reached a high standard. Religious beliefs centred on the worship of a fertility goddess, depicted in plaster reliefs, and a cult of the dead: wall paintings show vultures hovering over headless human corpses. However, the dominant theme in the shrines was the bull symbol of virility.

Reasonably secure in their settlements and supported by an agrarian economy Neolithic populations increased rapidly. With irrigation – which may have been introduced at Jericho – it was possible to expand into the lowlands of Mesopotamia. A settlement at Hassuna in the north dates from before 6000 BC, and a thousand years later the alluvial plains of the Tigris/Euphrates were being exploited at Eridu in the far south. Mesopotamia now became the heartland of Neolithic culture, laying the foundations for Sumerian civilization.

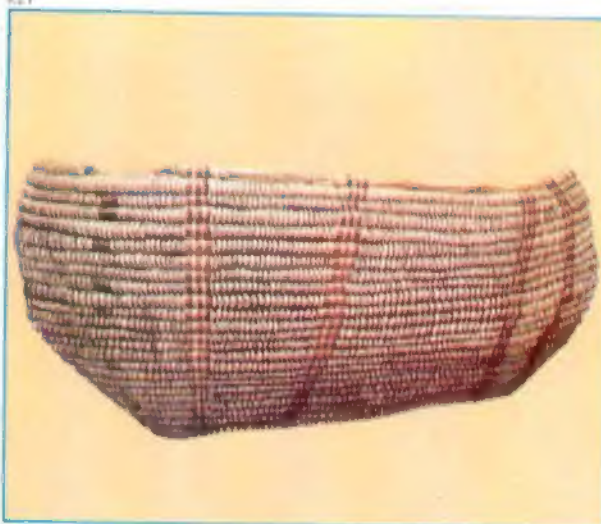
Meanwhile food production spread from Anatolia to Greece and on into Europe.

Land cleared by slashing and burning enabled agriculturalists to exploit the fertile soils of the Danube basin; and at the same time the megalith builders [12] were moving round the coasts of western Europe.

The staple crops of different cultures

The civilizations of western Asia and Europe were founded on wheat and barley, which are adapted to temperate climates and the subtropics, while millet, rice and maize are better suited to the tropics. Rice was cultivated in India earlier than in China, where millet was the main crop (and the pig the main domesticated animal) until about 2000 BC. In sub-Saharan Africa edible tuber cultivation may have preceded that of cereals (millet and sorghum), although there is no conclusive archaeological evidence. However, the evidence of numerous rock paintings shows that about 3000 BC pastoralists were able to find grazing all over the Sahara [3] in the period before the area became entirely desert. In Mexico primitive maize was cultivated by 5000 BC, but there were no fully sedentary populations in America before 1500 BC.

KEY



Wheat and barley were the staples of Neolithic economy in the Middle East. By about 4500 BC

these cereals had spread from there to Egypt. This 40cm long (16in) basket is made of coiled flax

and may have been used for sowing. It was discovered in a grain storage pit in the Fayum.



6 Skara Brae, in the Orkney Islands, was occupied by herdsmen and fishermen around 1800 BC.

As there was no wood on the island houses and furniture were made of stone. One village includes

eight connected huts, each with a hearth, two slabs for beds, and a dresser and wall cupboards.

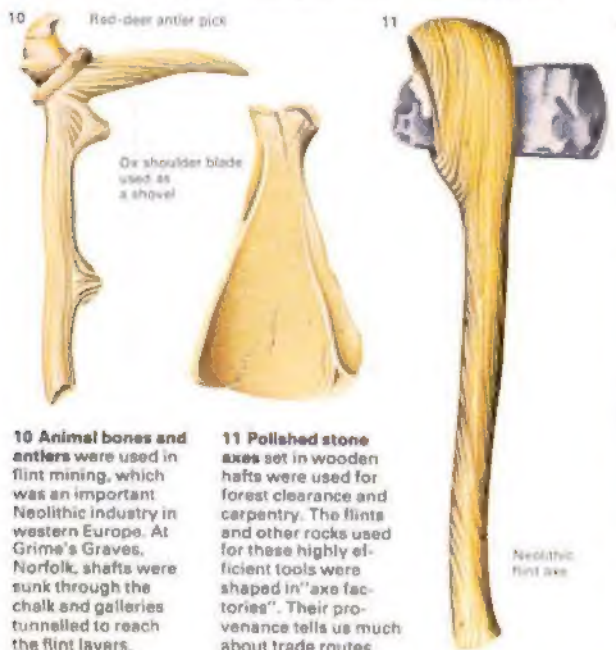


7 A pottery model of a cart (c. 1900 BC) from a grave in Hungary is the earliest evidence of wheeled transport in Europe.

8 Three-legged pottery jugs, typical of the Lungshan Neolithic of Shantung (c. 2000 BC), seem to copy bronze work, although there is no evidence of earlier bronze pieces.

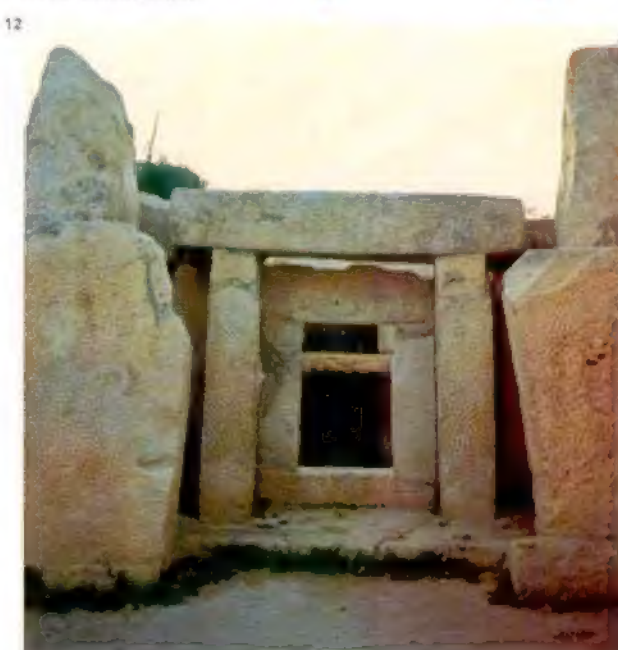


9 This beaker from Siyalk, Iran, was made about 4000 BC, by which time the potter's wheel was in use. The earliest Neolithic settlements in western Asia have no pottery, the first appearing about 7000 BC. In Japan the Jōmon culture pottery predates agriculture by several millennia.



10 Animal bones and antlers were used in flint mining, which was an important Neolithic industry in western Europe. At Grime's Graves, Norfolk, shafts were sunk through the chalk and galleries tunnelled to reach the flint layers.

11 Polished stone axes set in wooden hafts were used for forest clearance and carpentry. The flints and other rocks used for these highly efficient tools were shaped in "axe factories". Their provenance tells us much about trade routes.



12 Mnajdra, one of the many fine megalithic temples in Malta, is trefoil-shaped and dates from the early Copper Age (c. 2800 BC). The first colonists of the island arrived from Sicily about 4000 BC. A thousand years later, collective burials in rock-cut chambers eventually gave rise to elaborate temples unique to Malta. Built of huge upright slabs surmounted by corbelled blocks, they are often decorated with carvings. There was a cult of the dead, with altars for animal sacrifices; corpulent female statues indicate the worship of a mother-goddess. The megalithic tradition extended from the eastern Mediterranean around the coasts of western Europe.

Early western Asia

The historical term "western Asia" comprises the modern states of Turkey, Syria, Lebanon, Israel, Jordan, Saudi Arabia, Iraq, Iran, and perhaps Afghanistan. In antiquity the centre of the stage was occupied successively by Sumerians, Babylonians, Assyrians, and Persians, with Hittites, Hebrews and Phoenicians also playing their part, and Elamites, Hurrians, Urartians and Aramaeans – to list only some of the best known – in the wings. Their civilizations were mostly lost to knowledge after their fall, and so remained through the Dark Ages; and their recovery was long delayed by restricted access to and exploration of their lands.

The development of writing

Rapid advances in knowledge came in the mid-nineteenth century, very much as a result of the decipherment of the Old Persian cuneiform script [Key], which through trilingual inscriptions (Old Persian, Babylonian and Elamite) provided the key to the immeasurably greater bulk of Assyrian, Babylonian and Sumerian texts in cuneiform writing of a more difficult kind.

Cuneiform developed from the pictographic script first used by the Sumerians in southern Mesopotamia late in the fourth millennium BC. Their language fell largely into disuse early in the second millennium, but the cuneiform script in which it had been written was used by their political and cultural heirs, the Babylonians, to express their own Semitic language, known as Akkadian, although it was entirely different from Sumerian. Other speakers of Akkadian, in particular the Assyrians, also used cuneiform. The same script, with relatively minor variations, was used elsewhere in western Asia to express other quite different languages, such as Hittite, Elamite, Hurrian and Urartian; and the same principle – varying groups of cuneiform (wedge-shaped) impressions – was used for the simpler Old Persian script of the Achaemenid Empire and for the alphabetic script of the Phoenicians.

Deciphering the inscriptions

The excavations and study of the cuneiform-inscribed clay tablets and of similar inscriptions on stone and other materials was stimu-

lated by the announcement, in 1872 of the decipherment of an Assyrian version of the biblical story of the Flood, found on a tablet at Nineveh in northern Iraq. Understanding other cuneiform inscriptions was made easier by the Semitic character of the Akkadian language in which many were written – it was related in varying degrees to such known languages as Hebrew, Aramaic and Arabic. The information provided by the inscribed material (nearly all in cuneiform, but with additions particularly from Old Testament Hebrew, Aramaic and hieroglyphic Hittite) has been supplemented by further surface discoveries and, particularly for the prehistoric (generally pre-writing) periods in western Asia, by archaeological excavation.

The geographical background

There are significant geographical variations in the territories covered by the ancient civilizations of western Asia. The coastlands of the Black Sea and the Mediterranean give way more or less steeply to the Anatolian plateau of central Turkey, mainly watered – around its central desert – by rivers flowing

CONNECTIONS

See also

The Sumerians
4000 – 2000 BC
The Babylonians
2000 – 323 BC
The Hittites
1700 – 1200 BC
The Phoenicians
1500 – 332 BC
The Assyrians
1500 – 612 BC
The Hebrews
1200 – 322 BC
The Persian Empire
of the Achaemenids



3 A main route from Trabzon and the eastern Black Sea coastal area of Turkey leads southwards up the 2,000m (6,560ft) Zigana Pass, which is open for most of the year. The route continues through high, mountainous country to Erzurum, Tabriz, and Teheran, thus serving as a north-western gateway to Armenia and Persia. It also provided a trade route between those lands and places accessible by ship from Trabzon. The Persian "Royal Road" between Susa in Persia and Sardis in the west used a more southerly route through Diyarbakir and Ankara, where the going was easier. The lands south of Trabzon are typical of much of eastern and northeastern Anatolia.



1 The drama of ancient western Asia was centred on the riverine plains and adjacent hills and mountains between the Mediterranean and Caspian seas and the Persian Gulf. The area was dominated by the Tigris and Euphrates, the land between being Mesopotamia, but the term is used loosely for a wider area round the rivers. The silt they and their tributaries produced and the water diverted from them by irrigation helped the growth of the towns and later of the capitals of Babylonia and Assyria, whose power and conflicts provided the framework for the history of their times until their decline in the seventh and sixth centuries BC.



2 A sun-dried clay figurine from a ninth-century BC palace at Nimrud in northern Iraq bears the inscription, impressed in the clay on the back in Assyrian cuneiform, "Come in, favourable

demon; go out, evil demon". Such figurines lay in the brick-built foundation-boxes that are commonly found in the corners and beside the door jambs of important Assyrian buildings of the first millennium.



4 The wheel was probably invented in Mesopotamia during the fourth millennium. At that time it was constructed not of rings with spokes but of solid circular discs of

planks clamped together, with a "tyre" of broad-headed nails driven into the outer rim. Spokes came later, but the earliest type of wheel still survives in remote areas:

this one, for example, is found in a small village in eastern Turkey near Lake Van. Although many notable monuments had been built without the aid of the wheel,

including the pyramids, its introduction greatly facilitated farming and transport and proved central to the development and spread of Mesopotamian civilization.

towards those two seas, with the Hittite capital in north central Anatolia close to the modern village of Bogazköy within the bend of the River Kızıl İrmak.

In the south, the Taurus range impedes the way up from the Cilician plain, while in the extreme east and northeast, high ranges (including Mount Ararat, 5,185m [17,011ft] high) restrict movement and cradle the sources of the Euphrates and Tigris. These two rivers, after flowing westwards to begin with, both turn southeast to form most of the Fertile Crescent, watering the plains of Mesopotamia where the capital cities – notably Babylon, Ashur and Nineveh – of their major empires were built [1]. To the west of Mesopotamia lies the desert, and still farther west are the Jordan and Orontes valleys and eventually the Mediterranean coastlands. East of Mesopotamia, valleys wind through the harsh mountains of the Zagros [3] to the dry Iranian plateau with the Elamite capital Susa and the Achaemenid Persian capitals Pasargadae and Persepolis.

Excavations have shown that the settlements of prehistoric man in some of these

areas date back to as early as 9000 BC. Agriculture began sometime later. The cultivation of grain ("man's most precious artefact") assured a steady food supply, which led successively to expanding populations, release of labour for pursuits other than food-producing, specialization in craft, trade, government and religion, and so to the development of civilized societies from villages and towns to kingdoms and empires.

Wild cereal plants grew over much of western Asia, and their cultivation seems to have come first in the highland zones, notably in the Zagros mountains of eastern Iraq and western Iran and on the south Anatolian plateau. But as the grain-producing capacity of an inhabited area was bound to be a major factor in accelerating or retarding man's development, the fertility of the Tigris and Euphrates valleys, particularly with the addition of artificial irrigation from those rivers and from their main tributaries (the Habur, Upper and Lower Zab, and Diyala), gave the predominant prosperity in western Asia to the civilization of the Mesopotamian and southern plains.

KEY



Darius the Great of Persia (r. 521–486 BC) defeated nine princes to secure his throne. He recorded his achievement in detail on the face of the rock at Bisutun in western Iran, on the route from Mesopotamia to Teheran.

The sculptures show two attendants behind Darius himself, his right foot planted on the pretender Gaumata, and nine rebels in captivity. The adjacent rock faces bear 11 short cuneiform inscriptions identifying Darius and his foes, with a long trilingual inscription that confirmed and amplified modern knowledge of the scripts, previously known only by similar, much shorter trilinguals.

criptions identifying Darius and his foes, with a long trilingual inscription that confirmed and amplified modern knowledge of the scripts, previously known only by similar, much shorter trilinguals.

| Original c. 3500 BC c. 3000 BC | Archaeic Sumerian | Old Babylonian | Assyrian | Neo- Babylonian | Meaning |
|-----------------------------------|----------------------|-------------------|----------|--------------------|----------------|
| | | | | | Fish |
| | | | | | Ox |
| | | | | | Donkey |
| | | | | | Grain |
| | | | | | God/heaven |
| | | | | | Sun/day/light |
| | | | | | To till/plough |
| | | | | | House |
| | | | | | Men |

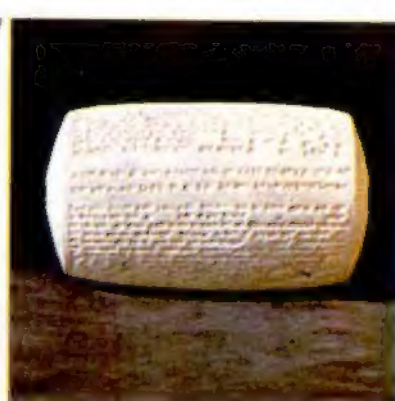
5 Sumerian writing probably evolved from the needs of public economy and administration. As the Sumerian city states developed, records were needed of goods moving in and out of the towns. Clay or

gypsum tags were originally attached to objects and bore a seal-impression identifying the owner; line drawings of the objects followed. Drawings were gradually simplified to signs. Later the

sign for a common word such as *ti* (arrow) was used for "it" sounds generally. (*ti* also meant "life".) The shift to phonetic representation led to the development of written symbols for entire languages.

6 Fragments of ivory boards each 33cm (13 in) by 15cm (6 in) were found covered in sludge at the bottom of a well in a royal palace at Nimrud. The boards had a raised margin round a recessed portion that

probably contained a mixture of beeswax and pigment as a base for a cuneiform text. This unrecased board carries Sargon's name and the title of the "book" of omens taken from celestial observations.



7 Hollow "barrel cylinders" of clay were at times used by the Assyrians for recording texts in cuneiform. This one, about 17cm (6.7 in) by 10cm (4 in), refers to Esarhaddon and gives a general summary of

his conquests and achievements. It also tells of a new palace he has built, with roof-beams of cedar from the Amanus mountains and "doors of sweet-smelling cypress wood". It dates from about 670 BC.



8 This monolithic basalt water-tank of the time of Sennacherib (r. 704–681 BC) was reassembled from small fragments, and measures about 3.2m (9.7 ft) square by 1m (39 in) high. Four corner-figures, almost in the round, represent the god Ea holding a water-dispensing bottle, as do the four figures facing outwards from the centre of each of the four sides. Two priests in fish-garments and holding ritual vessels turn to each of these figures. Two of the sides carry the inscription identifying the king. The detailed interpretation is uncertain, but the water element is clearly treated in an arcane sense; Ea, as god of the deep and of knowledge, may be intercessor between heaven and earth.

The Sumerians 4000–2000 BC

The partial excavation of the city of Endu, about 19km (12 miles) southwest of "Ur of the Chaldees", the biblical home of Abraham, has produced the earliest settlements so far discovered in Babylonia, and has vindicated the Sumerians' tradition of its antiquity – they thought of it as the first of the five cities that existed before the Flood. Subsequent pre-dynastic periods of settlement, spanning more than the fourth millennium BC, are named, after the relevant sites, Ubad, Uruk, and Jamdat Nasr.

The earliest dwellings at Endu apparently consisted partly of reed huts and partly of mud-brick houses. The following pre-dynastic periods progressed successively through painted pottery, fishing-boats and hunting-slings, flint-headed hoes and hard baked sickles, writing and the potter's wheel, plough and chariot, sculpture in the round and vessels of silver, copper and lead.

Writing appeared in the Uruk period, a little before 3000 BC, whether the Sumerians brought it with them, or were already there (having possibly come from Khuzistan, at the foot of the Zagros), is not certain, but there

seems no doubt that they invented the art. The list of Sumerian kings includes a number of monarchs before the Flood, although their position in the archaeological framework and their history are unknown. Whether the Flood of Sumerian and Hebrew tradition is represented by the barren strata of salt found at Ur, Kish and Shuruppak is far from certain. One Ziusudra of Shuruppak whom we are told survived the Flood is famous from the *Epic of Gilgamesh* as the man who preserved the seed of living things, but it was at Kish that "kingship was restored to earth" after the flood.

The First Dynasty of Ur

Little else is known of these kings and leadership passed after a struggle to the famous Gilgamesh of Uruk [8], and from his successors there to the First Dynasty of Ur. The names of some verified monarchs belong to this period, as does probably the splendid Royal Cemetery. Of two vaults at the bottom of a deep shaft, one (partly plundered) presumably contained the king's remains, and the other those of Queen Shub-ad (or Pu-abi) on

a bed, magnificently adorned and accompanied by female attendants.

Precious treasures survived in these and the other major graves: golden harps, bull-headed lyres, a golden dagger with lattice sheath, gold and silver florally decorated combs, golden bowls, huge boat-shaped earrings, thousands of beads in gold, silver and cornelian, and much more, as well as the Royal Standard of Ur showing scenes of war and peace in shell and lapis lazuli.

Little reliable information survives about the history of the period following the First Dynasty of Ur, except at Lagash, where the royal line was inaugurated by Ur-Nanshe whose power is attested by buildings, works of art (some archaic and crude), and inscriptions, including references to cargoes of timber arriving from the Persian Gulf, and giving the impression of inexperience in the use of writing. His grandson Enannatum rose to a supreme position in Sumer and defeated Mari, on the Euphrates, and Subur, perhaps in the north, the supremacy of Lagash was confirmed by his nephew Entemena.

The history of the rest of the Early

CONNECTIONS

1. The Sumerians were the first to develop writing, which was used to record transactions and other matters of importance.

2. The Sumerians were the first to develop the concept of a city, which was a place where people lived and worked together.

3. The Sumerians were the first to develop the concept of a king, who was responsible for the welfare of his people.

4. The Sumerians were the first to develop the concept of a religion, which was a system of beliefs and practices that governed their lives.



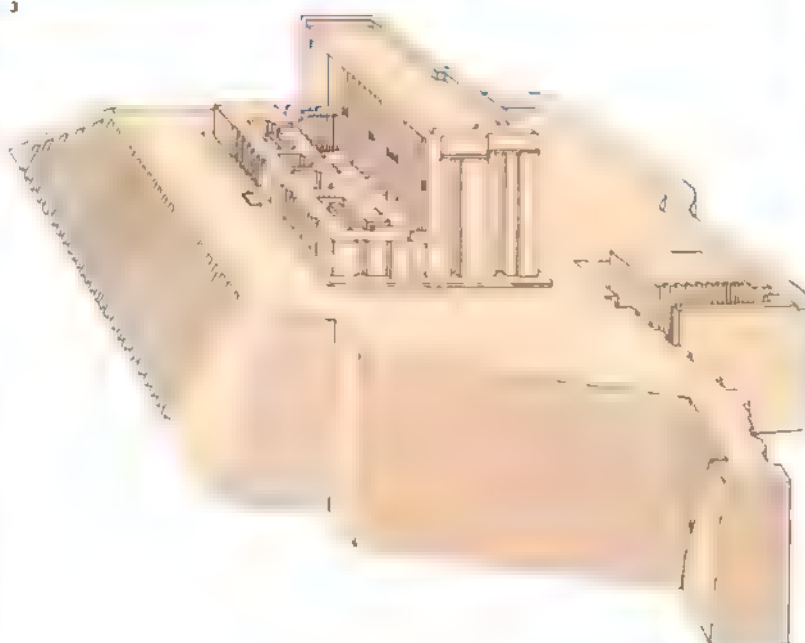
1 Mount Ararat, on which, according to the book of Genesis Noah's Ark came to rest after the Flood, appears also in Sumerian tradition. It is probably more correctly vocalized as Urartu, the name of a

kingdom that existed to the south of the mountain during the earlier part of the first millennium BC. The armies of this kingdom pressed long and hard on parts of the northern frontiers of Assyria.

2 Most of the Fertile Crescent was made up of the Syrian and lower reaches of the Euphrates and Tigris rivers. In the northern parts of this region there was some rainfall and natural fertility, and in the

plains of Sumer and Akkad in the south east crops were encouraged by the silt of the rivers and by elaborate irrigation works. The need for these was early recognized by the area's growing civilizations.

3 Temple architecture dating from about the end of the fourth millennium is best represented by the White Temple at Uruk, the latest surviving shrine of an irregular mound that was probably an ancestor of the later, more regular ziggurats. The White Temple, approached by three ramps, was built of sun-dried bricks, whitewashed and buttressed, with an altar inside the building's corners faced points of the compass. A zigurat, a many-staged temple mount, may have been an attempt to bridge the gap between man and the gods. It was strongly felt that man should offer residence to a deity, and the erection of a temple tower may have bolstered belief in contact with such superhuman powers.



4 Gudea of Lagash, shown here, was the son-in-law of Ur-Baba, who brought to his city enough wealth to undertake extensive public works. He also patronized a school of sculptors who soon began to produce the finest masterpieces in hardstone. Gudea

himself left inscriptions describing the religious observances and daily life of his time. He also enumerated the timbers and ornamental stones used in rebuilding the house of his god Ningirsu on which he spent nearly all his wealth.

Dynastic period in Lagash and indeed in the whole of Sumer is largely ill-attested, but Urukagina (reigned c. 2378–c. 2371 BC) with a surprising political maturity instituted social reforms – some apparently intended to lighten burdens imposed on the population by governors and priests. He fell to Ugalzagges of Umma, who in turn fell, after a substantial and evidently successful reign, to the great Sargon of Akkad (reigned c. 2371–c. 2316 BC) [7].

Sargon the Great, King of Akkad

Sargon rose from obscurity to overthrow Ugalzagges and to subdue the rest of Sumer, Syria – perhaps part of Asia Minor, and now, apparently, of the mountain area of southwestern Iran. Revolt followed, but his grandson Naram-Sin ruled gloriously for 36 years. Sargon's line fell in c. 2240 BC to the Guttian tribes from the north or northeast, whose sovereignty left little mark on history and few monuments (although Lagash emerged to a period of great prosperity about 2100 BC, under a Baba and Gungir) [1], and who were expelled by a coalition of

Uruk, his deputy at Ur, Ur-Nammu (6) seems to have overthrown him, and so founded the dynasty of Ur.

The Third Dynasty of Ur

Ur-Nammu did not take the title "King of the Four Regions" – perhaps acknowledging his relatively limited authority – but assumed the new title "King of Sumer and Akkad". His 18-year reign was a time of considerable wealth and power, as shown by his many great building works, including the restoration of direct communication by water with the Gulf. His successor Shulgi (reigned c. 2095–c. 2048 BC) extended his territories in the northeast and east, dealing among others with the Guttians and the Hurrians, he also made his literary mark in his letters and royal hymns, and claims to have been a master performer on eight musical instruments. His second successor Shu-Sin (reigned c. 2038–c. 2030 BC) had to face the threat of western incursion. Ibbi-Sin (reigned c. 2029–c. 2006 BC), who claimed victory over these Amorites (under Ishbi-Erra of Mari), later saw his city fall to the Elamites.



The Mesopotamian harvest was generally after a long struggle against fierce heat

and lack of rainfall. Firstly, combined in this, and stuck in a central region

significance and the actions of nature were believed to be ruled by the gods

5 The Royal Standard, dating from about 2800 BC, was found in one of the greatest tombs at Ur. It was apparently carried by an attendant wearing a peculiar head headdress. It shows fully maned four-wheeled chariots, perhaps referring to victory 'At' with domestic enemies on the river. It was a stand, and it was very small, 47 cm by 26 cm (18.5 in by 10.2 in) for a display of royal wealth and success.

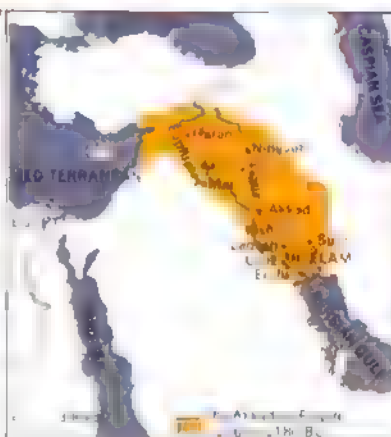


6 King Gilgamesh of Uruk (last known legend told about him) than any other hero of Babylonian history. The surviving Assyrian Epic of Gilgamesh was based on a much larger body of legend in Sumerian. This was so muddled that the king's career is quite unclear although some of the stories may have been based on fact. He probably repaired a sanctuary at Nippur, and almost certainly built the city wall of Uruk.



6 Ur-Nammu (c. 2113–c. 2096 BC), King of Ur, to whom this Sumerian seal was dedicated, may not have been a great warrior. But he did publish certain laws dealing, among other things, with sexual offences and wrongs committed in connection with the lands of others.

7 The world's first great empire, under Sargon of Akkad, extended so far that rebellion was almost inevitable, and this evidently occurred even before his death.



The Babylonians 2000–323 BC

The ferocious sacking and fall of Ur in 2000 BC allowed the Semitic-speaking Amorites under Ishm-Irra to establish more effectively a dynasty that ruled at Isin for more than two centuries. A few years earlier another Semitic-speaking dynasty arose at Larsa, of slightly longer duration, and the two dynasties in parallel dominated Babylonia for a century until a third power was established – unopposed by them – consisting of more Semitic-speaking Amorites at Babylon early in the nineteenth century.

However, early in the eighteenth century BC, Larsa, under Rim Sin “the true shepherd”, overcame Isin and became the sole major contender with Babylon for the domination of the land [5].

Hammurabi and his laws

The first five kings of the new dynasty at Babylon were mainly preoccupied with defensive and religious building and by canal-clearing, with little extension of territory. It was left to Hammurabi to engage in victorious campaigns that left his empire stretching from Mari on the Euphrates in the

northwest to Elam in the east and by defeating Larsa to succeed to the traditional kingship” of Sumer and Akkad.

Apart from his achievement of this relatively ephemeral empire, Hammurabi’s fame rests mainly on his code of laws [8] written in Akkadian, a Semitic tongue that had by then in parallel with political developments become the principal language of Mesopotamia. Sumerian was retained mainly for religious use, although the civilization it expressed was absorbed by the Semites and continued to flourish.

No evidence has yet been found for the application of Hammurabi’s laws in contemporary documents, nor was any appeal made to them; their standing and function are therefore unclear. But they may well have been an attempt to unify practice – notably in land tenure – among diversely regulated areas, with more uniform arrangements perhaps already prevailing in some matters not covered by them.

The reigns of Hammurabi’s successors were long and undisturbed, and although in the later eighteenth century BC mention was

made in Babylon of the alien Kassites (probably from the mountains in the northeast, and possibly Aryans), it was evidently an attack by the Hittite king Mursilis I in or soon after 1595 BC that brought the long-remembered destruction of Babylon and the downfall of Hammurabi’s dynasty. But Mursilis could hardly have contemplated permanent conquest, and the void was filled by a Kassite dynasty later credited with a 576-year rule.

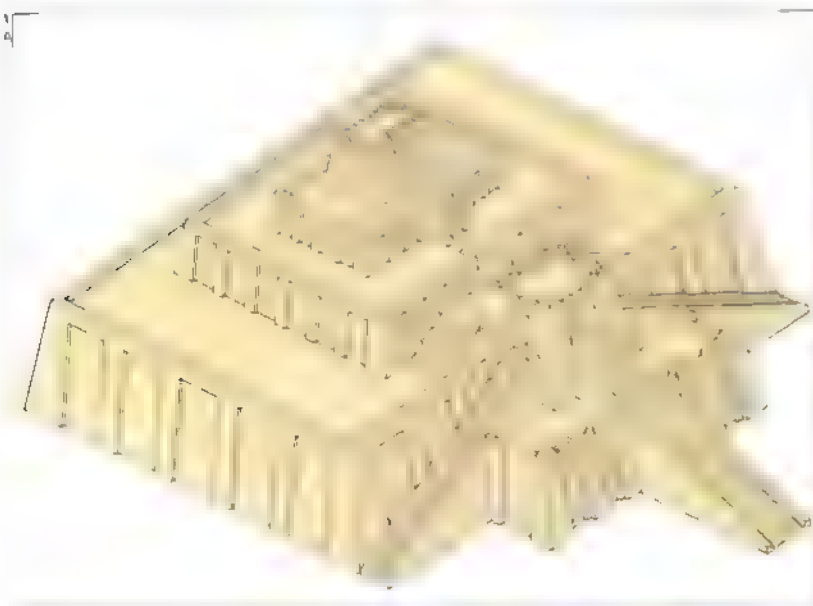
The dark ages of Babylon

Babylonia absorbed the Kassites, and during a dark age of more than 200 years little was heard of them. In the mid fourteenth century BC the Kassite king married the daughter of the king of Assyria. But the alliance led to wars that resulted in the temporary conquest and occupation of Babylonia by the outstanding Assyrian soldier-king Tukulti-Ninurta I in 1235 BC. Essentially the Kassites retained Babylonia, but their dynasty fell to the Elamites in 1157 BC.

The Elamites lost political control of Babylonia before the end of the century, it passed to a second dynasty of Isin which

CONNECTIONS

See also



1 The great ziggurat of the moon god at Ur [A] was begun, according to King Nabonidus (c. 555–539 BC), by Ur-Nammu (c. 2113–2096 BC), but may well conceal the remains of an older tower from as

far back as the pre-dynastic period. Nabonidus says it was continued but left unfinished by Ur-Nammu’s son Shulgi. Nabonidus himself made good the stairways with new treads a metre above the old

and raised the level of the terrace. Different in many respects from the Mesopotamian ziggurats and the largest known, 100m (328ft) square, is the ziggurat at Dur Untash in Elam [B], near Susa.



2 Lilit, with talons and feathered legs, was a Babylonian-Assyrian goddess who survived in Jewish lore into the Christian era. Traditionally a sinister bringer of death in this clay relief she holds what may be a measuring rope to indicate the span of man’s life. She is mentioned in an early fragment of the *Epic of Gilgamesh* which also gives some independent evidence corroborating the biblical Flood. The profile used in narrative reliefs was less suited to representing the deity in actual rites, and reliefs over the altars of shrines show the goddess in a frontal view, perhaps to establish a relationship with the worshippers.



3 This Babylonian tablet, not yet fully understood, appears to be concerned with theoretical geometry. Most Babylonian mathematical texts are contemporary with the dynasty of Hammurabi (c. 1792–1750 BC); the rest are datable to the last three centuries BC. The earlier history of the Old Babylonian group is not known beyond the evidence of innumerable economic administrative texts from the earliest period of Mesopotamian writing, whose number system, based on 60, was retained by the Old Babylonians. But although the content of Old Babylonian mathematics reached a level which can be compared with that of the early Renaissance – it was a somewhat elementary compared with that of the Greeks.

under Nebuchadnezzar I (reigned 1124–1103 BC), ended Elamite interference. The Isin Dynasty fell after little more than 100 years of political stability. The ensuing age of uncertainty and civil disturbance was relieved by the inauguration of the Eighth Dynasty of Babylon in 977 BC, and for a century Babylon maintained close contact with the developing power of Assyria.

Shalmaneser III [Key] of Assyria (reigned 858–824 BC) was called upon to help quell a rebellion in Babylon, at which time the powerful Chaldean tribes of southern Babylon were first making their appearance. Wars with Assyria and anarchy at home preceded the emergence of Tiglath-Pileser III (reigned 744–727 BC) as a strong king of Assyria who at length assumed the Babylonian crown. His successor Shalmaneser V (reigned 726–722 BC) ruled both countries for five years, but both Sargon II (reigned 721–705 BC) and Sennacherib (reigned 704–681 BC) found strong antagonists in the Chaldeans.

Babylon's fortunes varied widely in the seventh century, until the rise of the

unknown "son of a nobody" Nabopolassar (reigned 625–605 BC) inaugurated a great age of Babylonian civilization under the neo-Babylonian or Chaldean Dynasty.

The rise of the neo-Babylonians

Babylon helped the Medes in the overthrow of Nineveh and the Assyrians in 612 BC. Her brilliant commander Nebuchadnezzar II (reigned 604–562 BC) destroyed Jerusalem and carried off its inhabitants, erected great monuments and buildings, which made Babylon one of the Seven Wonders of the world – this is the period of the "Hanging Gardens".

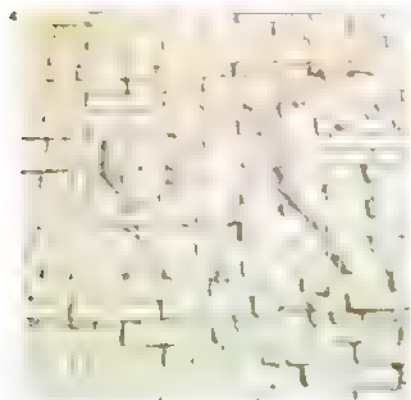
Nebuchadnezzar's son was murdered and the decay of Babylon accelerated under the pious antiquarian Nabonidus [1]. Babylon fell without a fight before the Achaemenid Persian king Cyrus the Great (c. 600–529 BC) in 539 BC. Xerxes (c. 519–465 BC) partly destroyed it in 482 BC; it might have been restored by Alexander the Great (356–323 BC) had he not died there, and thereafter, although its astronomical schools survived, Babylon passed into history.



The throne-base of Shalmaneser III found at Nimrud has an inscription on the horizontal surfaces. It includes a separate section referring to the king's campaigns of 851 and 850 BC in Babylon, in which

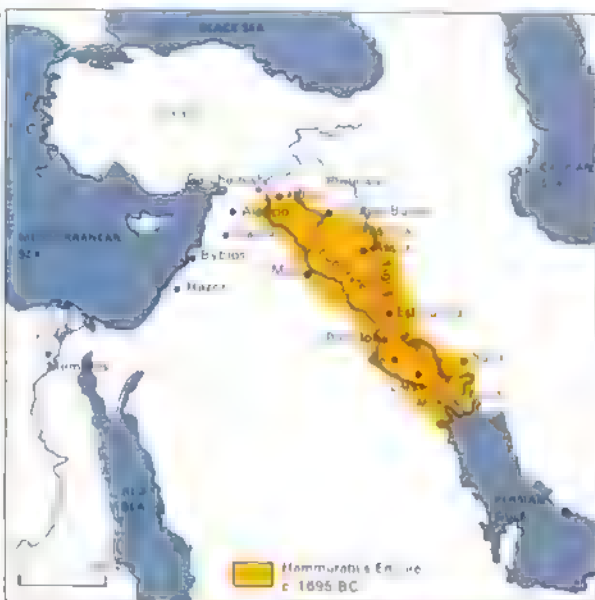
he helped the Babylonian king to defend his throne against a rebellion. This relief carving on the western vertical face shows Shalmaneser [right] and probably the Babylonian king [left] each

with an attendant under a canopy. They are shaking hands – a unique representation in Mesopotamian art of this modern gesture, whether it implies equality, Babylonian subservience or neither is unknown.



4 Relief bricks from Babylon some showing bulls and mythical creatures, once formed part of the Processional Way. Like most excavated Babylonian remains they are of the neo-Babylonian period.

5 Babylon dominated western Asia more or less, for thirteen and a half centuries. It lay on the lower course of the River Euphrates, an advantage much increased by the development of irrigation systems.



6 Early clay tablets reveal the importance of sheep and goats; they also use the signs for merchant cattle and donkey – in the economy of early Sumerian communities. The Akkadian period improved on the quality of the early tablets in the first ever

recording of a Semitic language – Old Akkadian. Their development into the tablets of Babylonian (those shown are Old Babylonian) and Assyria culminated in the calligraphy of the scribes of Ashurbanipal's library at Nineveh.

7 Naram-Sin (c. 2254–c. 2218) of Akkad, whose Semitic lineage was an interlude in Sumerian history, presaging the supremacy of the Semitic Babylonians, portrayed himself on this stela triumphing over the eastern Iraq king of Lullubi.



8 The diorite stela of Hammurabi was carried off from Babylon by an Elamite invader, perhaps in the eighth century, to be taken to Susa where it was found in the winter of 1901–2. The text is topped by a bas-relief showing Hammurabi receiving

the commission to write the laws from Shamash, the sun-god, god of justice. The Elamites apparently chiseled off parts of the text, but most of these survive on other copies of the code. It has a prologue and an epilogue in semi-poetic style.

Egypt: the Old and Middle Kingdoms

Successive prehistoric cultures designated by the names of Badarian, Naqada I and Naqada II have been identified from archaeological remains in Upper Egypt but remains from Lower Egypt are scanty and make any sound historical judgment rather difficult. It would appear that two distinct kingdoms evolved in Lower and Upper Egypt [1] and that the unification of the country was brought about by the victory of Upper Egypt over Lower Egypt c. 3100 BC. Even after this unification, however, the peoples of ancient Egypt continued to call their country the Two Lands.

The divine kings of Dynasty I

Traditionally the first ruler of Dynasty I and conqueror of Lower Egypt is known as Menes [2] and he is credited with the foundation of the national capital of Memphis, just south of the Nile Delta. The reigning king was regarded as the living embodiment of the falcon-god Horus and hence divine. During the first dynasty and the next farmers began to use the plough extensively, and irrigation was probably introduced. A national government evolved and writing was developed.

With Dynasty III began the period known as the Old Kingdom (c. 2686–2181 BC). The most prominent ruler of Dynasty III was Zoser, for whom the Step-Pyramid complex was built [Key]. Under Snofru, the founder of Dynasty IV, the first true pyramid was constructed and the technique of building pyramids was perfected under his successors Khufu, Khephren and Menkaure. The construction of the pyramids [4] entailed enormous expenditure and organization, and the weakening of the power of the crown at the end of Dynasty IV led to the abandonment of the more expensive techniques.

During Dynasty V the cult of the sun-god Re regained national pre-eminence and the rulers undertook the construction of solar temples for his worship. At the end of Dynasty V magical texts were inscribed on the walls of the burial chamber of the royal pyramids to ensure the safe passage of the ruler's spirit to the after-world. During Dynasties IV to VI periodic campaigns were undertaken against tribesmen in the Sinai peninsula and large-scale expeditions were dispatched to Nubia to extort or trade for

ivory, gold and other precious materials.

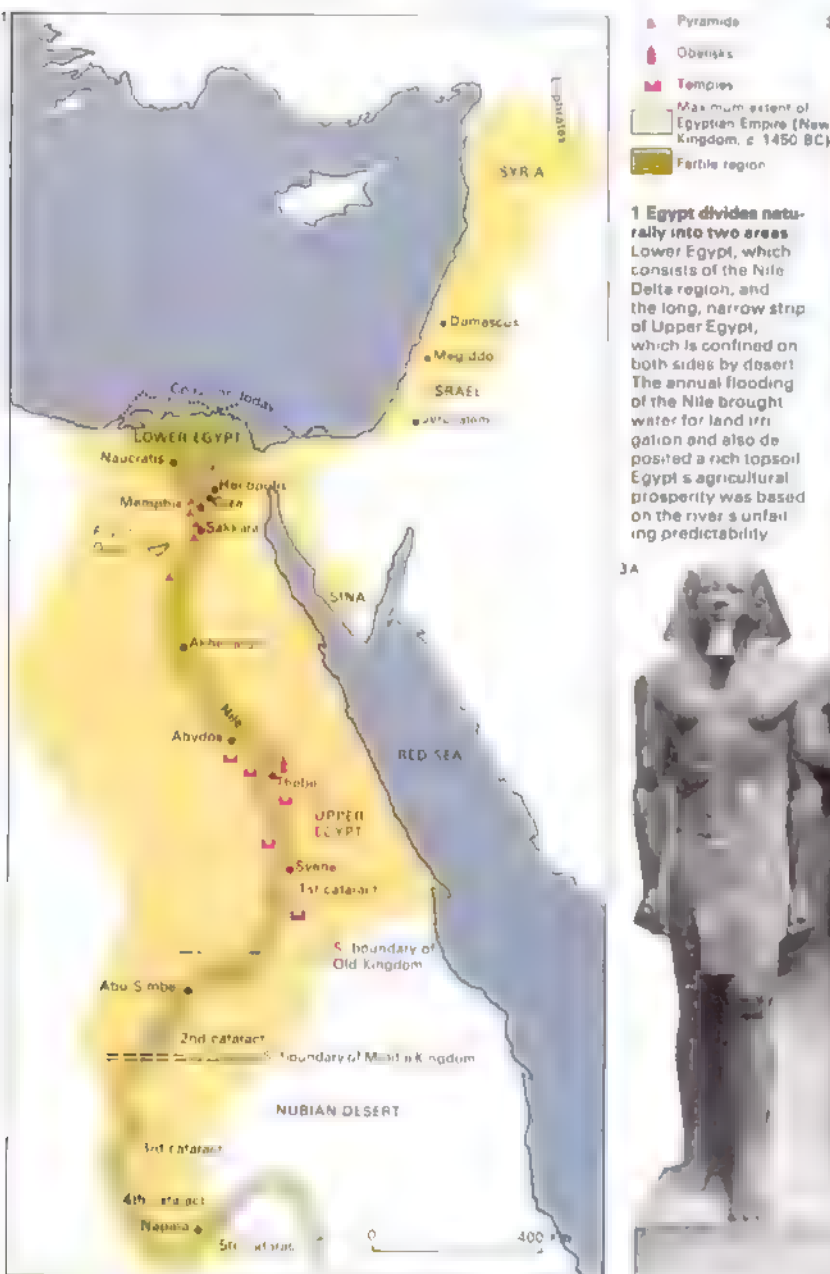
At the end of Dynasty VI the growth in power of the provincial governors, the nomarchs, led to the steady weakening of the control of the Memphis hierarchy. Rival dynasties appeared in Heracleopolis and Thebes and the country was plunged into civil war. The confusion was compounded by the infiltration of Asiatic tribesmen from Sinai into the fertile regions of the Delta.

A period of confusion ends

This chaotic and ill-documented era is known as the First Intermediate Period (c. 2181–2050 BC). Montuhotep II of Dynasty XI, Prince of Thebes [7], overcame his rivals and reunited Egypt under his rule, although the many nomarchs retained considerable power. He expelled the Libyan and Bedouin raiders, inaugurating the Middle Kingdom in Egypt (c. 2050–1786 BC). Montuhotep II had a mortuary temple and tomb built for himself at Deir el Bahari on the west bank of the Nile opposite Thebes. Montuhotep II's descendant Montuhotep IV was succeeded in unknown circumstances by his vizier.

CONNECTIONS

See also



2 Egypt's unification was brought about by war. Victories of the early rulers are commemorated on ceremonial palettes such as this one depicting Menes, the first ruler of all Egypt.

3 The monarch's public image in the Old and Middle Kingdoms was widely different, a change reflected in the royal statuary. The figure of King Menkaure of Dynasty IV (A) with his queen is an idealized portrait of the god-king. The aftermath of the First Intermediate Period saw the development of a more realistic and intense style, as in the statue of Senusret III (B).



Amenemhat I, who founded Dynasty XII in about 1991 BC

Amenemhat I founded a new capital at Lisht south of Memphis because Thebes was too far south to serve as an efficient capital. To strengthen his hold on the throne he circulated a spurious prophecy concerning his rise to power and appointed his son Senusret I as co-ruler. Despite these precautions Amenemhat I was assassinated after 30 years of rule but his son managed to secure the throne. The powers of the provincial nobility that might rival the throne were suppressed under Senusret III. Amenemhat I had begun the conquest of Nubia and this expansion was completed under Senusret III, who fixed the southern border at Semna. Apart from one attested incursion into southern Palestine no steps appear to have been taken to exercise direct control in Palestine or Syria, but trade links were strongly maintained. A line of fortifications was built by Amenemhat I in Sinai to deter possible invasions. The rulers of Dynasty XII sponsored a vast land reclamation project in the Fayum area.

The Second Intermediate Period (c

1786-1570 BC) was marked by a decline in the power of the central government. During Dynasty XIII Asiatic invaders broke through the Egyptian defences and infiltrated the country. These foreigners are commonly known as the Hyksos, although the term should properly be applied to the chiefs only. The Hyksos eventually secured control of most of the country, with the aid of new military weapons such as chariots, and were the founders of Dynasty XV (c 1674-1570 BC), although it is most unlikely that they ever exercised direct control over Thebes and the south. More probably Thebes was forced to acknowledge the supremacy of the Hyksos ruler in his new capital of Avaris in the Delta.

The invaders are expelled

The Hyksos did not rule as foreigners but adopted Egyptian titles and Egyptian culture. As their power weakened, the princes of Thebes of Dynasty XVII were emboldened openly to reject Hyksos rule and, after several campaigns, Kamose and his successor, his brother Ahmose, succeeded in taking Avaris and expelling the invaders.

REV



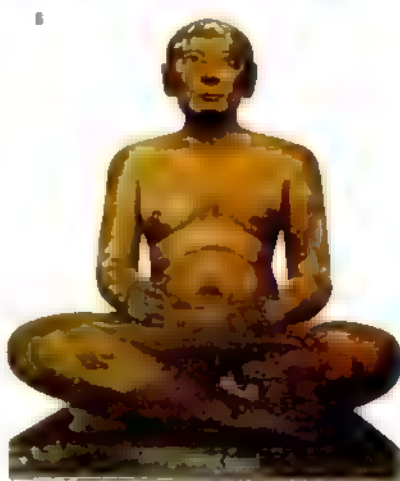
King Zoser's Step-Pyramid at Sakkarah, Memphis, was the

first major Egyptian building in stone. It was supposedly

designed by his vizier Imhotep, who was later deified.

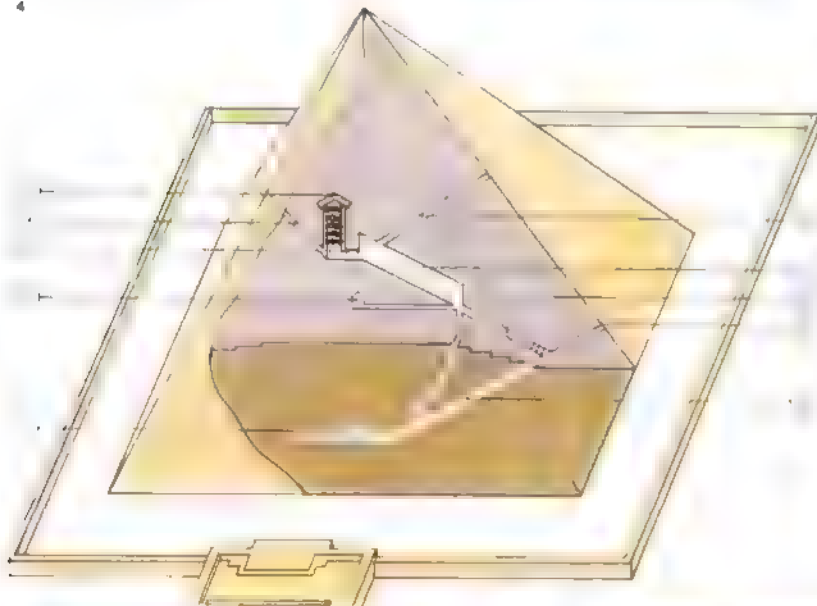
- 1 Subterranean chamber
- 2 Queen's chamber
- 3 King's chamber
- 4 Entrance
- 5 Corridor
- 6 Corridor
- 7 Grand chamber
- 8 Vault
- 9 Shells

4 The Great Pyramid erected at Giza by Khufu, second ruler of Dynasty IV, provides a typical example of the art of the pyramid builder. It is built of limestone blocks and was originally faced with fine white limestone. It was approximately 146m (480ft) in height. After two changes in plan the final resting place of the body, called the King's Chamber, was constructed of granite and approached via the Grand Chamber. The sarcophagus is still in place.



5 Scribes, such as this one depicted in an Old Kingdom statue, were the key to the smooth functioning of the Egyptian adminis-

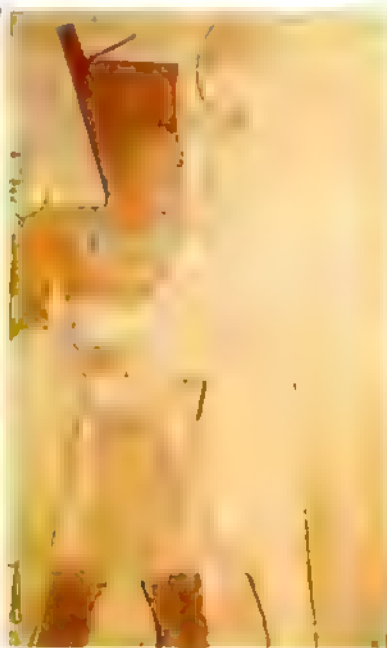
tration. Papyrus was used for the recording of daily accounts and business, but very few pieces have survived from this period.



6 In the afterlife the same things were felt to be required

as in this life. Everyday items, even down to models of

retainers like these soldiers, were therefore placed in tombs.



7 King Montuhotep II is shown being embraced by Re, the sun-god, in a painted relief from the king's mortuary temple at Deir el-Bahari. The king also prepared tombs for Nefru, his sister and queen, and for several of his concubines. Later rulers of Dynasty XI built similar temples opposite Thebes on the Nile's west bank.

8 Egypt's lack of certain raw materials, notably timber, resulted in the growth from early dynastic times of a flourishing trade between Egyptian and Syrian ports. Egypt's influence in Syria and Palestine during the rich period of the Middle Kingdom is reflected in the Egyptian statuary and jewellery found in those regions.

India: prehistory to 500 BC

The earliest evidence of a literate culture in India dates from about 2300 BC when the Indus civilization emerged from the prehistoric age. This Indus or Harappan civilization (named after the town of Harappa) had its principal centres in the Indus valley, now mainly in Pakistan, but extended westwards to the present Iranian border, eastwards to beyond Delhi and southwards to the Gulf of Broach [1]. Its main cities were at Harappa in the Punjab and Mohenjo-daro in Sind, but there were also a number of smaller towns including the port of Lothal.

The nature of settlements

The cities show advanced town planning and the remains testify to a high and diverse material culture [2, 3]. A considerable part of the now fairly arid Indus valley must have been brought under cultivation to yield the surplus crops with which to feed the city populations. Unless there has been a complete change of climate in this area since that time it is obvious that fields were irrigated.

Such a sophisticated civilization required a form of writing. Thousands of steatite

(soapstone) seals [Key] have been discovered. In addition to representations of animals, men and gods these present brief inscriptions in as yet undeciphered hieroglyphic script. The seals, some of which have been found as far away as Syria, were probably merchants' seals attached to goods.

The end of the Indus

Even less is known about the end of the Indus civilization than about its origins. After flourishing for five or six centuries (c. 2300–1750 BC) without undergoing much change it completely disintegrated following a brief decline. Although natural calamities cannot completely be excluded, it now seems that the Indus cities were ravaged by invading nomadic horsemen in the eighteenth century BC. The latter are usually identified as Indo-Aryans, for whose presence there is, however, no reliable evidence until about four centuries after the end of the Indus civilization. It is therefore more likely that the Indus cities were conquered by tribesmen from the mountains who, in their turn, gave way to the Indo-Aryans.

By the thirteenth century BC, the Indo-Aryans – split into numerous tribes who fought each other no less fiercely than the earlier inhabitants – had occupied the Punjab. They subsequently spread into the Ganges valley and southwards into Gujarat and Maharashtra.

A vast collection of religious hymns written in archaic Sanskrit, the *Rigveda*, dates from this early phase (c. 1400–1000 BC). Apparently preserved by oral tradition, the hymns are addressed to many different deities whose help is implored in military and agricultural pursuits. The four Vedic texts, of which the *Rigveda* is the foremost, spawned expositions and commentaries of which the *Upanishads* are the most celebrated. The gods, such as Indra, are usually conceived of as anthropomorphic, but some features – for example speculation about the true nature of the sacrifice – which were to become characteristic of Hinduism, are already distinguishable.

During the later Vedic period (c. 1000–550 BC) the Indo-Aryans, by then utilizing effective iron tools, spread over

CONNECTIONS

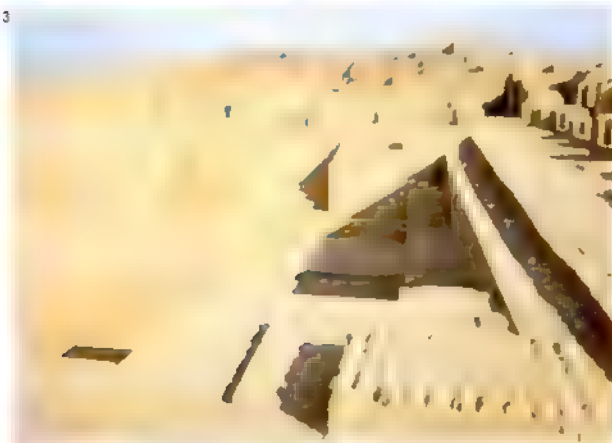
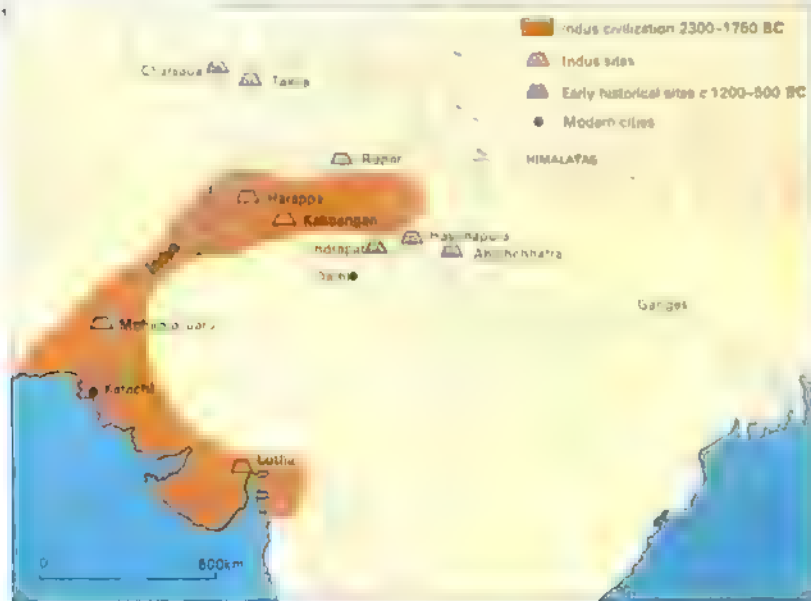
See also

1 The brown areas on the map mark the expansion of the Indus civilization stretching southeast down the coast to beyond the Gulf of Broach and eastwards far beyond present Delhi. The

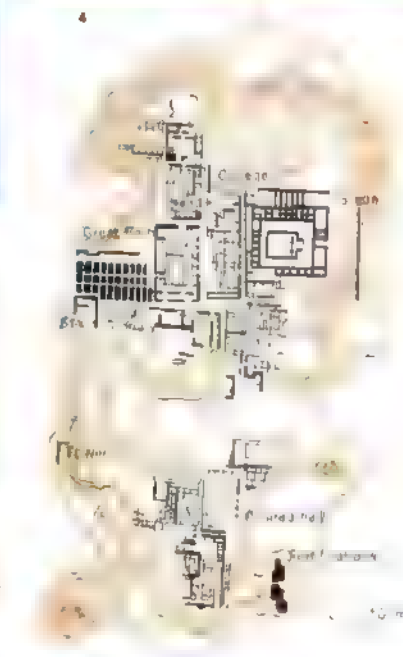
westward expansion into Baluchistan is not shown. All over this vast area Rupa and Lothal are about 1,600 km (1,000 miles) apart – the Indus civilization was uniform suggesting centralized control

Political control was facilitated by the nature of the land as this civilization flourished in relatively dry areas which, unlike the tropical rain forest, could be cultivated without iron tools

2 The ancient Indus city of Mohenjo-daro was built according to a systematic plan with streets crossing at right angles and houses opening onto the streets. Elaborate granaries have also been found



3 The Great Bath in the citadel of Mohenjo-daro was built of fine brickwork and presumably used for ceremonial functions. One of the most striking features of the Indus civilization was the importance attached to good water supplies. A well-built bathroom has been found in almost every house which also possessed proper drainage. As a result each house has its own well, with a deep shaft which was kept in shape by means of terracotta hoops



4 The larger Indus cities also consisted of a citadel mound and a lower city complex stretching eastwards from the citadel. The form of the site of most of the large public buildings such as in Mohenjo-daro the Great Bath, the granary and a building that on account of its shape, several courtyards, corridors, rooms and compartments has tentatively been identified as a college. The lower city was the residential area. This ground plan of Mohenjo-daro shows the grid of the town in the lower part of the city and the houses, which vary greatly in size from those consisting of a single room to large residences boasting more than 20 rooms

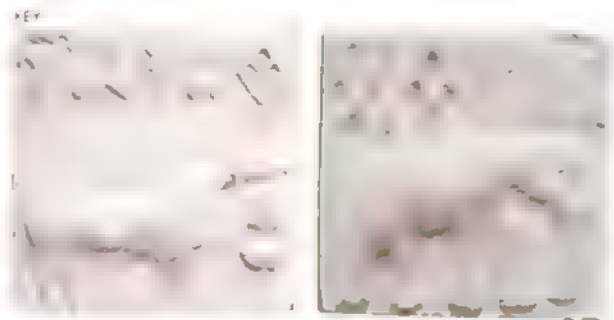
most of northern India including the Ganges valley, burning down the forest to cultivate the fertile land. The gradual progress of this expansion can be traced with the help of a distinctive type of pottery, Painted Grey ware. These people were not urbanized as the Harappans had been. During their expansion they mixed with earlier established forest tribes, introducing them to the horse and their mode of life changed from semi-nomadic cattle breeders to settled farmers.

This change had important political and cultural implications. The tribal units gave way to kingdoms based not on kinship but on territory. The kingdoms were controlled by warrior classes (*kshatriyas*) headed by the king, and assisted by members of the powerful class of hereditary priests (*brahmins*). These two ruling classes controlled the free peasants, traders and craftsmen who constituted the third class (*vaishyas*), as well as the semi-servile labourers, hunters and fishermen who formed the lowest class of the *udras*, partly descendants of forest tribes. Some of these, especially those whose way of life was considered unclean or repulsive by

the Indo-Aryans, were assigned the status of untouchables. This marked the beginning of the complex caste system.

The rise of major cities

During this period major cities developed for the first time since the decline of the Indus cities. The most important were Hastinapura on the Ganges east of present-day Delhi and in about 400 BC Rajgir in southern Bihar with its impressive walls. In the same period most of the basic concepts of Hinduism took shape: not only caste, but also the belief in the transmigration of the soul, in non-violence and in the holiness of the cow. These have all become lasting features of Indian civilization. While the Vedic sacrifice persisted and became more and more complicated, there was also a reaction among those who felt unsatisfied with formal religion and sought higher values in meditation. People of the ruling classes were encouraged to withdraw to a life of contemplation in the forest when their children no longer needed them. On this foundation Siddhartha Gautama (c. 563-c. 483 BC) instituted Buddhism.



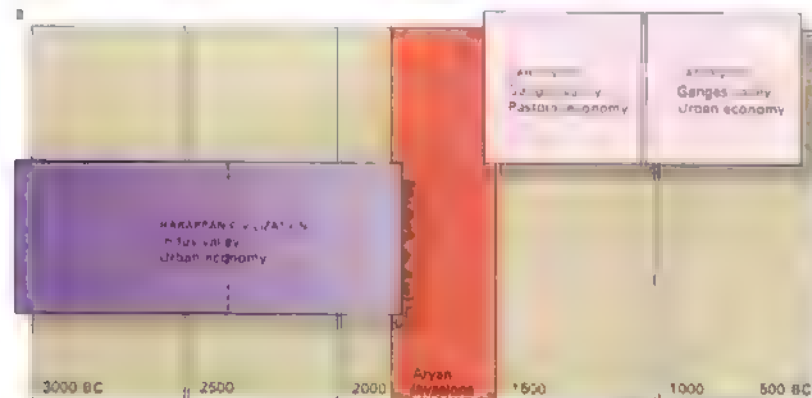
Three Mohenjo-daro seals from the Indus Valley Civilization supply valuable information about the ancient Indus civilization, revealing for example that cattle had already been domesticated. These seals represent a bull feeding from a manger, an elephant and a rhinoceros. The writing is hieroglyphic but scholars have not yet been able to decipher it.

5 The earliest true history of the Indo-Pakistani subcontinent began when after the middle of the third millennium BC a high civilization emerged in and about the Indus valley. Once established

the Indus valley civilization flourished for more than six centuries without undergoing any significant change. Its sudden end may have been due to Indo-Aryan invasions, but it seems more likely

that these invasions took place when the Indus civilization had already disintegrated. The Indo-Aryans settled in villages in the Punjab and were divided into tribes, about which we know from the

Rigveda. Between c. 1000 and 500 BC Indo-Aryan civilization gradually spread along the Ganges valley, as we can confirm from later Vedic literature and early Hinduism took shape



7 Most seals from Mohenjo-daro show representations of animals, sometimes natural, sometimes composite or fantastic. This seal shows a three-headed horned deity seated in an attitude that is reminiscent of

the yoga *esonas* of later times. The god is surrounded by a number of animals. This, among other features, recalls later representations of the god Shiva. The deity has therefore been identified as a proto Shiva.

6 This limestone sculpture is one of the few surviving stone sculptures of the Indus civilization. It is 19cm (7in) high and is apparently a portrait statuette representing a bearded man with

low, receding forehead, elongated eyes and thick lips. The sculpture reveals excellent taste and craftsmanship and gives some impression of the physical appearance of the ancient Indus peoples.



8 The modern inhabitants of the Mohenjo-daro area, like their predecessors, still use the river as their lifeline. The river was not only important for irrigation of the fields in the vicinity of its banks but it was also essential for communications. The striking uniformity of the Indus civilization would have been impossible without reasonable communications. Representations of boats have been found on stone and terracotta at Mohenjo-daro.

Minoan civilization 2500–1400 BC

Arthur Evans (1851–1941), the British archaeologist, excavating at Knossos on the island of Crete from 1900 to 1936, uncovered a richly decorated palace, an architectural masterpiece that indicated an early civilization more distinctive and sophisticated than any other European culture hitherto discovered [4]. Other similar palaces have since been revealed – by the Italians at Phaestos, by the French at Mallia, more recently by the Greeks at Zakro – and a balanced picture begins to emerge.

Beginnings of Minoan civilization

The Minoans (from the name of the legendary King Minos of Knossos), as Evans called the people who lived in Crete, appear mysteriously on the island at the start of the Bronze Age, about 3000 BC, perhaps as immigrants from Anatolia or, as recently argued, from Palestine. The contents of their circular tombs, most frequent on the plain of the Mesara, show that overseas contacts were maintained, contacts that gradually built up into a great trading network across the eastern Mediterranean [1].

By about 2000 BC, economic and social advance had spurred architecture to impressive achievements – the Old Palaces. Their details are much obscured by later additions and alterations, but enough survives at Knossos, at Mallia, and particularly under the west court at Phaestos, to show that building on a lavish scale was already being carried out. The implications for the social organization are of course even greater than for the technical abilities of the builders. The Minoans had achieved civilization.

One of the most obvious criteria of this is the use of writing. The earliest brief inscriptions in Crete are found on seals, where picture symbols appear to belong to a hieroglyphic script. Clay tablets found in the early palace at Phaestos show that by then a simpler syllabic writing had been devised for general use. It may well have been employed mainly for writing on some sort of paper or parchment, but such materials have failed to survive. No convincing translation of these texts, called Linear A, has yet been proposed, so its language remains unknown.

The exact nature of the island's political

organization is difficult to discover. The extensive storage capacity of the palaces, for articles such as pottery as well as commodities like olive oil, suggests that they were economic as well as administrative centres, controlling territories within the island. Yet these territories had apparently nothing to fear from each other – there are no walled defences and few signs of weapons or soldiers. Knossos clearly held a leading position, perhaps by controlling overseas trade.

Height of Minoan culture

Demonstrated by finds of Minoan pottery from as far away as Egypt, by colonies on several Aegean islands, and by the permeation of the mainland culture, overseas trade goes far to explain the wealth of Crete at this period. But Minoan civilization cannot be explained as simply imported from abroad: it is far too individualistic for that.

After apparently natural disasters in about 1700 BC, the palaces were lavishly rebuilt and it is the ruins of these that can be seen today. Building was in limestone, within a timber-frame construction. This added a

CONNECTIONS

See also

- 1 Probably dominated by Knossos c. 2000–c. 1400
- Town
- Town with palace
- Great palace
- ▲ Cult centre



1 The long narrow island of Crete was the home of Minoan civilization, the first in Europe. With much of the interior mountainous, Mt Ida topping 2400m (7,873ft) and the rugged south coast broken only by the plain of Mesara behind Phaestos, there seems little

to explain civilization here. But the north coast has a gentler relief and is rich in olives and vines, and the surrounding seas encourage trade and contact over wide areas. The Minoans actively developed their agricultural wealth and foreign commerce.



2 Minoan pottery, after a long and unspectacular development, achieved pre-eminence first in the Kammaris ware of c. 1800 BC. This is wheel-made in elegant shapes, some cups being extremely fine. The studs on the back of this jug from Phaestos suggest the handle rivets of a metal prototype, as does the shiny black slip. The painted decoration however – the bold, curvilinear abstract design – could come only from a ceramic tradition.

3 Elegance of shape is even more marked in the late Minoan period from 1500 BC. The fashion changed at this time to painting in red on yellow and much greater use was made of naturalistic motifs, though some abstract elements remain. Favorite decorative subjects were flowers – lilies in particular – and sea creatures, such as octopuses, nautilus and shells among rocks and seaweed.



4 The Great Palace of Knossos had a long history. The plan shows it after its rebuilding in c. 1550 BC. The main entrances (1 and 2) lead by long corridors to the Central Court (3). Beneath this, deposits have been found going back to 8000 BC. Store-rooms for oil and other goods (4), and for pottery (5) hint

at the wealth that poured into the building, which controlled at least all of central Crete. The administrative block fronted the court on the west

and faced the great staircase to the domestic quarter on the east (6). Outside the palace to the northwest a processional way led to a theatre (7).

useful, if not always effective, resilience against earthquake shock, to which Crete is prone, but also added to the fire risk. Ranges of rooms opened on to the great central courts, with well-planned light wells to illuminate inner suites of chambers. Internal walls were plastered and often gaily decorated with the most elaborate and colourful frescoes [9]. Floors were frequently paved with alabaster slabs. But it is perhaps the drainage system, as advanced as any before the eighteenth century AD, which causes the most surprise. The overall impression is a convincing one of light, air and freedom – so different from that of the contemporary civilizations farther east and so much closer to modern ideals.

The art fully bears this out, whether it is a life-sized figure painted in the frescoes, decoration on the magnificent pottery [Key] or minute detail on the carved seal-stones [7, 8]. The colour and naturalism hold an immediate appeal to the modern world.

This great civilization's end is even more hotly debated than its origins, if only because there is so much more evidence on which to

base the story. The most widely accepted version, but by no means the only one, would start from the cataclysmic eruption of the volcanic island of Thera, a little over 100km (63 miles) from the north coast of Crete about 1450 BC. Much of Crete would have been plastered with poisonous ash, shattered by the shock waves of the explosion and pounded by monstrous tidal waves.

Decline and conquest

Of the major sites, only Knossos appears to have recovered from this destruction and here there are many signs of a profound change. The new rulers were warriors who used the Linear B script, now recognized as an adaptation of Linear A for writing an early version of the Greek language. This would all seem to point to a conquest of the island by mainlanders, Mycenaeans, who had seized the opportunity given them by the eruption of Thera to oust the Minoans from their control of the profitable sea-routes. Metropolitan Minoan was replaced by provincial Mycenaean and the palaces were lost to sight and memory.

KEY



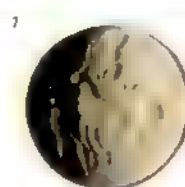
This pottery figurine displays a courtly elegance typical of the Minoan civilization of Bronze Age Crete. It is 29.5cm (11.6in) high and was found in the Temple Repositories at Knossos, where it was buried c. 1500 BC. The tightly fitting bodice, open to expose the breasts, the embroidered apron and the long flounced skirt are shown frequently on seals and in frescoes. The lioness, if such it is, on her hat and the snakes in her hands are less usual and more sinister. She is probably the earth mother, whose worship is widely attested in shrines and pillar crypts on Minoan sites and in caves and hilltop sanctuaries throughout Crete.



5 This magnificent stone libation vase comes from the palace at Zakro, destroyed c. 1450 BC. It shows a sanctuary (centre left) on a mountain peak, with wild goats on the roof. A bird flies past two pairs of horns used at consecration.



6 A gold pendant from Malia shows the same love of nature in a very different technique. Two bees, wasps or hornets rest on a berry or honeycomb. It is 4.6cm (1.8in) across and is dated about 1550 BC.



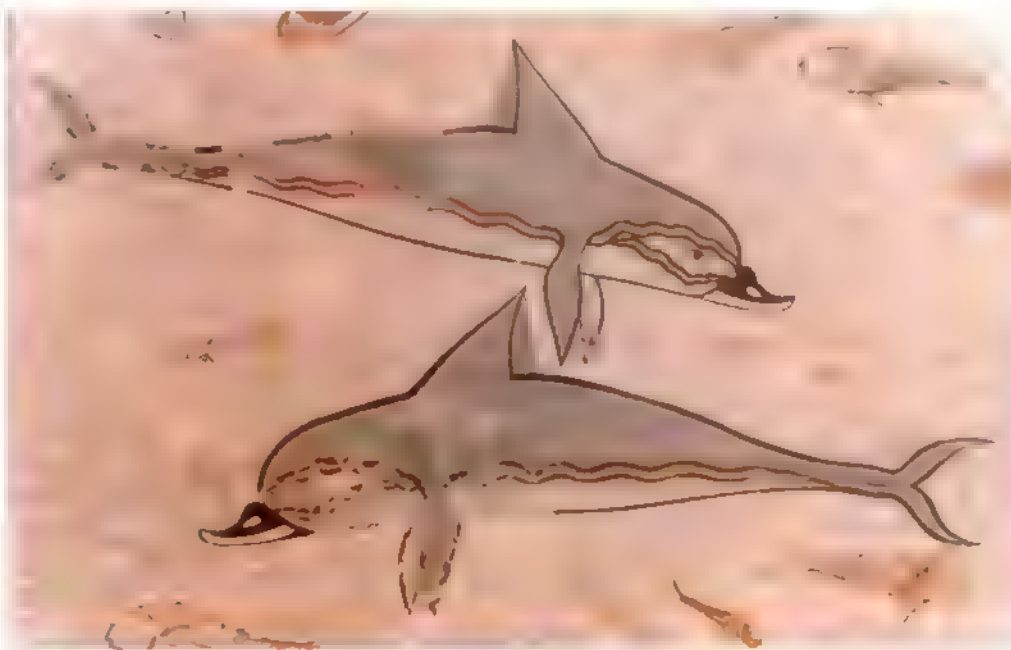
7 On this seal impression measuring 2.1cm (0.8in) across, two acrobats perform in a field full of flowers.



8 This seal, in reality only 1.5cm (0.6in) across, demonstrates the mastery of Minoan carvers. It is in blue chelcedony.

9 Fresco painting was another spectacular art of the Minoans, although it normally survives only in small fragments. This scene of dolphins and fish

decorated the so-called Queen's Megaron in the domestic quarter of Knossos. Other frescoes also show birds, flowers, plants, animals and people.



The Greek mainland 2800–1100 BC

Homer's *Iliad* and *Odyssey*, written between about 800 and 700 BC, record the exploits of legendary Greek heroes around the time of the Trojan Wars. For centuries the fact that this heroic age ever existed about 1800–1100 BC was in doubt, until Heinrich Schliemann (1822–1890), a German archaeologist, recovered at Troy and Mycenae (from 1874) relics that supported the legends.

Bronze Age beginnings

This Greek Bronze Age, centred on the Greek mainland, began with the introduction of metal, important both for stimulating trade and for the acquisition of visible wealth. About this time, too, the grain economy of the plains of Thessaly and the north was replaced by one based on grain, olives and the vine, which flourished better in the south. By 2500 BC this economy supported a palace, the House of Tiles, at Lerna in the Plain of Argos. About 2200 BC however, Lerna and many contemporary settlements were destroyed by invaders from the north-east. These were probably the first inhabitants to speak a language recognizably Greek.

At this time the fast potter's wheel and the megaron, a hall with pillared porch, were introduced. Soon after, their civilization showed signs of influence from their contemporary, Minoan Crete [2].

In time, however, strong towns grew up, such as Mycenae. The first real evidence of the flowering of the mainland civilization appears in the shaft graves of Mycenae itself, dating largely from the sixteenth century BC. They contain real solid wealth, in gold, silver and bronze, in crystal, alabaster and clay. We can assume that these were the resting places of a princely or even royal family, ruling a rich and integrated society. Many of the objects [6, 8] reveal a contrast between polished and sophisticated craftsmanship, patently Cretan, and a very un-Cretan emphasis on weapons, armour and military scenes [7]. The owner of the stern gold mask [Key] was no soft courtier but a warrior hero, an ancestor of those whom Homer portrayed.

These early Greeks also became seamen. A few of the objects from the shaft graves may be Egyptian work acquired through trade, rather than Cretan or Greek. Desirous

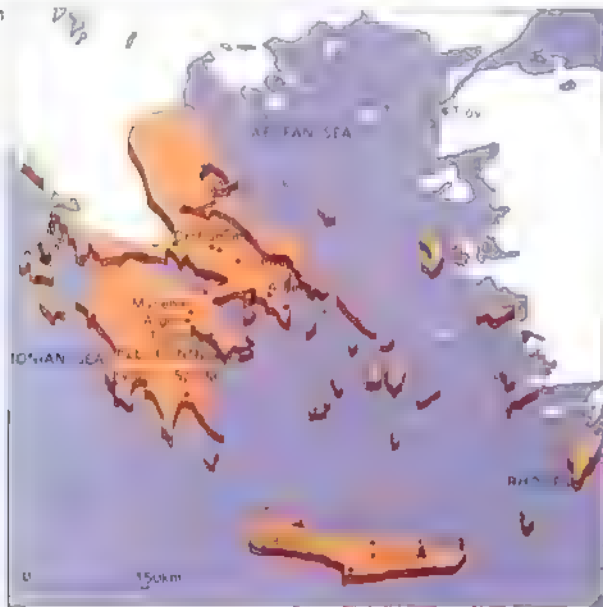
of more trade goods from abroad and supported by local agricultural wealth, the Greeks began overseas ventures of their own, to Troy, to Palestine and Egypt, and to the Lipari Islands beyond the "toe" of Italy.

Expansion of Mycenaean civilization

But their opportunity came when the power of the Minoans was destroyed, perhaps by the cataclysmic eruption of Thera c. 1450 BC. This freed the rich trade routes of the Mediterranean which the Cretans had hitherto controlled. The mainlanders, comparatively untouched by the disaster, made the most of the new situation. Their pottery, valued both for its own sake and for the perfumed oil exported in it, rose sharply in price in both the Levant and Egypt: it was prized, for example, in Akhenaton's newly built Egyptian capital Tell el Amarna, about 1350 BC. Cypriot copper was carried in their ships. A great westwards trade port grew up at Taranto in southern Italy, bringing more copper from Sardinia and the eastern Alps, and amber from the distant Baltic. Crete itself was occupied by the Mycenaeans, and

CONNECTIONS

See also
PART 2, VOLUME 1



1 The Mycenaeans' homeland was the Peloponnese and adjacent parts of Greece, centred on the Argolid and Mycenae itself. Here they built their distinctive version of the civilization already flourishing in Crete. As they took over the Minoans' sea trade, so their influence spread to the islands and coasts around the Aegean and beyond. This vast territory was never a unified state. More likely it was a collection of allied kingdoms.



2 The Mycenaeans were strongly influenced by the Minoans. This gold

cup from Vaphio, near Sparta, if not made in Crete itself must at least have

been the work of a mainland craftsman trained in the Minoan tradition.



3 The syllabic script came from Crete. Linear B script was extensively used for business documents, such as this stock list of herbs from Mycenae. The language used was an early form of Greek.

4 The fortified citadel of Tiryns, c. 1330 BC, typifies mainland architecture in the Bronze Age. A tortuous entrance passage [1] leads through the massive walls and an inner portico [2] leads to the first court. The administrative centre took up the whole of the inner court [3] and the megaron [4], with its great central hearth, opening on to it. The main structural fabric consisted of a wooden framework and columns and sun-dried bricks.



the Palace of Knossos was rebuilt as the seat of the new dynasty.

In the towns of Greece, craftsmen carried out their trades, producing fine metalwork, pottery and perishable goods. The towns themselves grew larger, stronger and better appointed. Walls were heightened and extended, with devices to ensure the safe supply of water. The palaces, still based on the traditional megaron plan, were now elaborately decorated with frescoes. The richly equipped tombs, now great corbelled tholoi (circular buildings first developed at this period) like the Treasury of Atreus [5] show the great architectural skill that had been attained by their builders.

To facilitate such a level of trade, craft and administration, writing was needed. The Minoans on Crete had developed a syllabic script of their own, still undeciphered. This is found inscribed on tablets and archaeologists have called it Linear A. The Mycenaeans adapted it, rather clumsily but adequately for their Greek tongue (Linear B) [3]. In 1952 Michael Ventris, the English architect deciphered Linear B and established beyond

doubt that the Mycenaeans, Homer's Achaeans, were linguistically at least the true ancestors of the classical Greeks.

Mainland civilization declines

The closing stages of Bronze Age Greece are difficult to understand. By one account hardy frontiersmen from the northwest, the Dorians, overran the cities of the south and sacked them all, except Athens. By another the Mycenaeans lost their expansionist drive towards 1200, engaged in civil war – the siege of Troy exemplifies this – and in effect destroyed themselves. At around this time there was certainly great unrest over a wide area, and the bands which unsuccessfully attacked Egypt in 1225 BC and again in 1191 BC included Aegean peoples.

In mainland Greece, the succeeding age knew little of what had gone before. Shabby villages replaced the flourishing towns, simple pots the great tombs, and common pots the masterpieces in clay, silver and gold. The one advance in this dismal period, sometimes referred to as the "dark age", was the introduction of iron-working.

KFV



This gold mask shows a proud Mycenaean of c. 1550 BC. It was recovered from Shaft Grave V by Heinrich Schliemann in 1876.

5 Earlier shaft graves

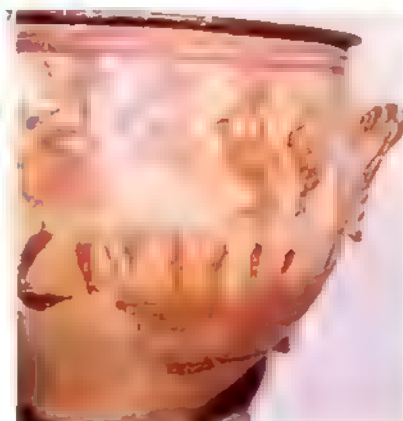
were succeeded at Mycenae by stone-built tholos tombs. The finest is the so-called Treasury of Atreus c. 1320 BC. A walled passage leads to a monumental door in the mound. Inside, a circular chamber is roofed by a corbelled vault. The bodies and grave goods were looted long ago, but other smaller tombs have also been found.



6 A delightful small find at Mycenae was this ivory carving, only 6cm (2.4in) high, of two women and a child. Its function is unknown. Minoan influence is clear in both dress and carving.

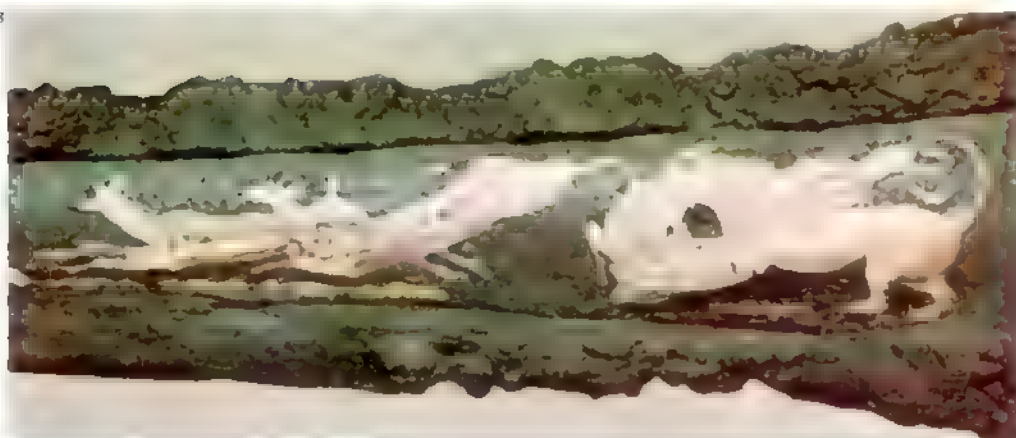


7 These Mycenaean warriors may have a comic flavour to our eyes, but the discovery of fortifications, weapons and armour show that warfare was an important factor in life at the time.



8 Bronze daggers from shaft graves of c. 1550 BC reveal great artistic skill in their gold, silver and metal inlay. Some show a hunting cat in Minoan style, but this one has a more ro-

bust mainland subject. A lion is attacking a deer while two more make their escape. The dagger is 23.5cm (9.25in) long and one of the treasures discovered in Shaft Grave IV by Schliemann, the German archaeologist.



Stone Age Britain

Although traces of still earlier occupation are beginning to come to light, the first really clear evidence of human settlement in Britain belongs to a time about a quarter of a million years ago. At that time the country enjoyed a mild climate and favourable environmental conditions between two ice ages.

Swanscombe man and the ice ages

The population lived in small groups and occupied open-air sites along river valleys and lakesides. They were efficient hunters, catching large game such as now-extinct forms of elephant, and rhinoceros, as well as horse, wild ox, red deer and fallow deer. One of the most important sites of this period, at Swanscombe, just south of the River Thames in Kent, has yielded three fragments of the skull of a fossil man. Swanscombe man is usually classified as the earliest known example of the modern species *Homo sapiens*.

After the occupation of this period, which is sometimes known as the Great Interglacial, there are a number of sites that can be dated either to warmer phases within the next glaciation (c. 200,000–125,000 years ago) or

to the last interglacial period (c. 125,000–100,000 years ago). These sites indicate that men continued to visit Britain, at least during the milder climatic phases. With the beginning of the last ice age, c. 100,000 years ago, modern understanding of human activity in Britain becomes much clearer. Probably on four separate occasions during warmer climatic phases, small groups of hunters moved into Britain across a land-bridge from the continent of Europe and settled in caves [3] and rock-shelters in England and Wales. Some of the best known sites of this date occur in Cheddar Gorge, Somerset, and there is another important group in Derbyshire. Occupation of Britain still remained very sparse and occasional.

Britain after the ice ages

About 14,000 years ago the climate began to become warmer once again and the ice sheets began their final retreat [1]. As conditions improved, the vegetation altered, and about 10,000 years ago the open tundra of the glacial periods began to be replaced by forests. At first these were forests of birch and pine,

both cold-loving species; later hazel, oak, elm, lime and alder grew too, forming the so-called "Mixed Oak Forest". These changes in flora were accompanied by changes in fauna also: open-country animals such as the horse, reindeer, bison and mammoth disappeared and were replaced by woodland forms such as red deer, roe deer, elk, wild ox and wild boar.

The human population had to adapt to all these changes in climate, vegetation and animal life. Some groups, such as the one that settled at Star Carr in Yorkshire c. 7500 BC, adapted their way of life to forest conditions [5]. They used plant foods such as hazel nuts and learned to hunt the woodland animals that moved singly in the forest, unlike the herd animals that their ancestors had hunted on the tundra. They learned to use timber and they had the first true stone axes.

Other groups settled along the seashore to exploit coastal resources, such as fish and shellfish. During this period Britain became permanently an island. As the ice sheets melted, large quantities of water were released into the sea, and the sea level (which had been much lower than at the

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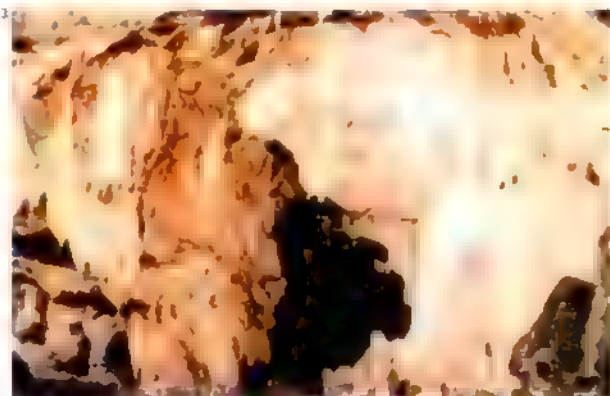
See also

1 Ice sheets covered much of the British Isles at least four times during the Pleistocene period, also known as the ice Age. During the last and best-known glacial period only half of Britain was covered by ice, but two ice ages earlier, much more of the country was affected, as far south as the valley of the Thames. Temperatures were much lower than today in the glacial periods, and arctic conditions prevailed even south of the ice itself. As a result, there was no human settlement at those times. But the ice ages were separated by warmer "interglacial periods", when temperatures were at least as warm as at present. Shorter mild phases or "interstadials" occurred within the main ice ages themselves. In these warmer periods, men crossed the land-bridge linking Britain with the European continent and settled only to retreat to their former homes when the cold returned.

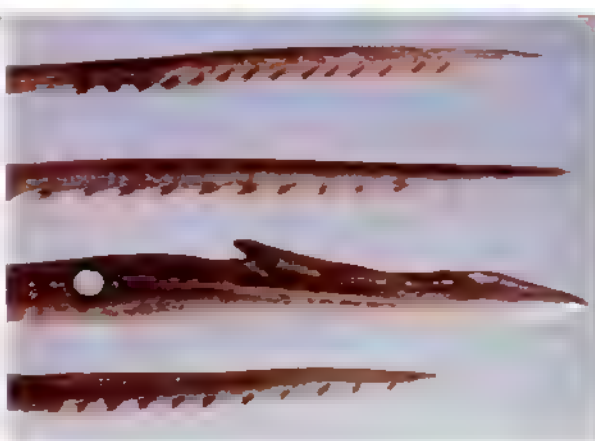


2 Hand-axes made of flint are among the earliest tools found in Britain. They could be used for cutting, scraping or hammering. Such axes occur throughout Europe, Africa and southern Asia.

3 Kent's Cavern, Devon, and similar caves and rock-shelters provided shelter from the elements for the people who settled in Britain during the interglacial periods of the most recent ice age.



4 A carving of a male figure, scratched on an animal's rib bone, is probably about 12,000 years old, and was found in Pin Hole Cave, Derbyshire. The people who inhabited Britain during the last ice age did not decorate their caves with fine many-coloured paintings of animals as their contemporaries at Lascaux, France, or Altamira, Spain, did. Conditions of life at the extremities of Europe were probably too harsh to support such a high level of cultural activity.



5 Barbed points of antler or other bone that might have been used for either hunting or fishing were numerous at Star Carr in eastern Yorkshire, one of the most fully explored Mesolithic sites in Britain. A lakeside platform of felled birch branches supported a small community there which lived by hunting the smaller animals such as deer in about 7500 BC. At that time, after the final retreat of the ice, open birch woodland began to give way to pine.

present during the glacial periods) rose. The last land-bridge connecting Britain to continental Europe was submerged c. 6000 BC. The Mesolithic people – as the hunting groups of the post-glacial era are known – probably used boats, both along the coasts and across stretches of water. Both Scotland and Ireland were settled for the first time during the Mesolithic period.

The introduction of agriculture

Some time before 4000 BC a new wave of settlers arrived in Britain from the European continent. These Neolithic immigrants introduced a whole new way of life based on farming, rather than on hunting and gathering. They cultivated wheat and barley and they bred domesticated cattle, swine, sheep and goats. They introduced new techniques, including the manufacture of pottery [6] and the production of ground and polished stone implements. These farmers were more numerous than the earlier hunters and they have left far clearer traces of their activities. Not many settlement sites of this period are known, but monumental tombs [Key] sur-

vive, as well as central meeting places or fairgrounds ("causewayed camps"), strange linear earthwork enclosures ("cursus monuments") and, rather later, the sanctuary sites ("henge monuments" [9]), of which the most famous are Avebury and Stonehenge. The sites from which they obtained the raw materials used for axes are also known, such as the mines at Grimes Graves in Norfolk and Great Langdale in Cumbria.

The first farmers in Britain probably had an egalitarian social organization without marked differences in rank or wealth. But it seems likely that by the later part of the Neolithic period, in the third millennium BC, a more hierarchical society had evolved. The construction of the five largest henge monuments probably involved about one million man-hours of work, while the two largest cursus monuments and the artificial mound of Silbury Hill [8] probably required more than ten million man-hours. The organization of manpower, materials and food supply required for these vast projects could have been undertaken only by a ranked society with a chief at its head.



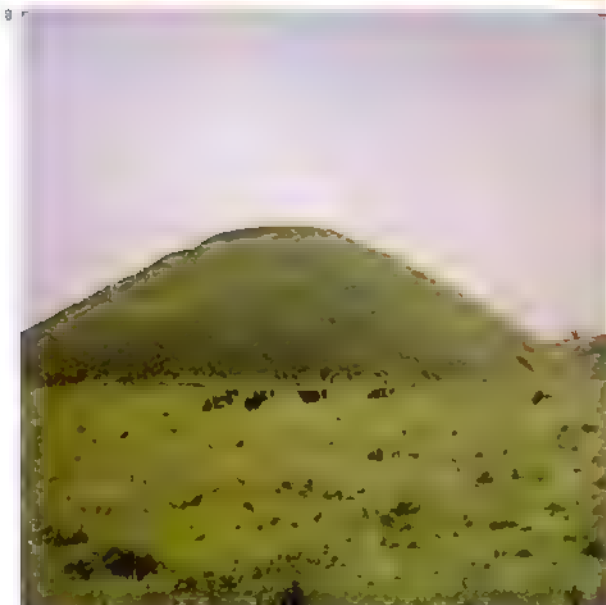
Monumental tombs, such as this one at West Kennet, Wiltshire, were often built by the Neolithic

inhabitants of Britain. Such tombs were used for many generations and were closed after each burial and re-

opened for the next. The bones of earlier burials were heaped together to make room for the new arrival.



6 The art of making pots was one of the skills introduced to Britain by the first farmers. The early pots were hand made and fired at fairly low temperatures in open pit fires. It is therefore usually assumed that they were made domestically. But even such simple pots were sometimes traded over considerable distances.



8 Silbury Hill, Wiltshire, is close to another important Neolithic site at Avebury. It is the largest man-made mound in Europe, and is conical in shape, 40m (131ft) high. It was built in three stages, the first consisted of a gravelly clay

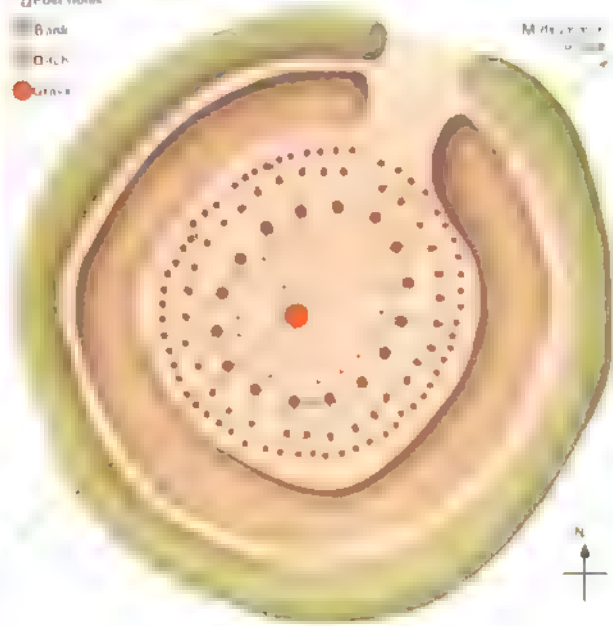
core capped by a turf stack within a ring of stakes and covered by mixed materials. This was immediately overlaid by the second stage, which consisted of a chalk mound and a surrounding ditch. In the third stage the ditch was filled in and the chalk mound ex-

tended to cover a larger area. The whole process was continuous and took place about 2750 BC. Its purpose remains a mystery. Excavations have shown no sign of burials. It may have been a sanctuary with a temple on top.

7 This Neolithic wooden figure shows both male and female sexual characteristics and therefore probably represents a prehistoric deity. Evidence of the religious life of the early settlers is limited in Britain, because few cult figurines of the type common in Europe and Asia have been found. This example comes from the Somerset levels.



9 Woodhenge is an example of a small henge (a circular Neolithic earthwork). It is 3 km (2 miles) north of Stonehenge, and is immediately south of the vast monument of Durrington Walls. Inside Woodhenge there are six concentric rings of holes that originally contained wooden posts. They are thought to be the remains of a wooden building with an open light in the centre. On the axis of the building, near the centre, is a grave of a child about three years old with a cleft skull, one of the few examples of ritual human sacrifice in Britain. The set of the posts is oval in plan, and the long axis points in the direction of the midsummer sunrise like the axis of Stonehenge. Woodhenge was built about 2300 BC.



core capped by a turf stack within a ring of stakes and covered by mixed materials. This was immediately overlaid by the second stage, which consisted of a chalk mound and a surrounding ditch. In the third stage the ditch was filled in and the chalk mound ex-

China to 1000 BC

The Chinese have a unique place in history largely due to their natural barriers that protected their great land mass (the size of Europe) and their relative lack of contact with the outside world until the nineteenth century. Their ancient culture did not come to an end like the cultures of ancient Egypt and Greece, but has evolved unbroken from 2500 BC to the present day.

Earliest human remains

The earliest human remains so far discovered in China are those of the Peking and Lan'ien men, dating back well over half a million years. They were among the first men to make tools and evidence of their descendants has been found in caves in the hills near Chou-k'ou-tien, which contained scraping and cutting stones. These early people were followed by Upper Cavemen who lived about 50,000 years ago. They were able to make fire and lived by hunting, fishing and gathering fruits and edible roots. In the Neolithic age (c. 7000-1600 BC) people made needles, bows and arrows, and ground sharp edges on stones and shells. Antlers were fashioned

into sickles and saws and an agricultural and pastoral society arose. The Neolithic period is also characterized by fine pottery [2, 3, 7].

The first farmers lived in beehive-shaped huts which were sunk into the ground for additional warmth and security and covered by thatched roofs supported on wooden posts. Agriculture was helped by the existence of a thick deposit of loess, a very fine soil that is thought to have been blown from the northwest. In some places in the Central Plain it is more than 60m (200ft) deep and being exceptionally fertile, provides some of the finest agricultural land in the world. Like the Nile mud it is an excellent material for building rammed earth walls or for making bricks. The region's moderate climate supported wild horses, buffalo, deer, wild pigs, sheep and even rhinoceros.

The Central Plain lies between two great rivers - the Huang Ho [1] in the north and the Yangtze in the south. These rivers flow from west to east and carry the loess through the region. It is here that the Bronze Age culture of the Shang or Yin Dynasty was born (c. 1600-c. 1030 BC).

Fortunately the Chinese proved to be expert husbandmen and managed to maintain cereal crops on the same fields for thousands of years.

The writings of early historians

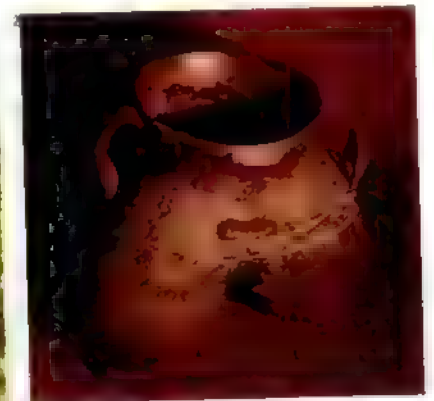
There is so far little evidence to support the earliest history of China as related by Chinese historians of the second century BC. They held that the country was first ruled by two groups of three and five emperors made up of legendary figures, who were followed by the Hsia, Shang and Chou dynasties. The existence of the Hsia Dynasty is still in doubt, but archaeological evidence has proved the existence both of the Shang Dynasty and of a central authority with a capital city, Great Shang near An-yang in north Honan. The Shang were mainly agricultural people but they are known for their mastery of bronze casting [Key]. Their bronze ritual vessels, bells and axes exhibit an unsurpassed quality of craftsmanship [5, 9].

Sacrifice played an important part in Shang culture, and people as well as animals were slaughtered to commemorate royal

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See also

1 The floodplains of the Huang Ho (seen here) and Yangtze rivers provided a natural centre for the growth of Chinese civilization. The rich silt they carried and the annual irrigation encouraged settlements and the growth of agriculture. The Yangtze is the fourth longest river in the world. The Huang Ho or Yellow River derives its common name from its sludgy yellow-brown colour. It is subject to unpredictable floods caused by the melting snows; these have so often devastated the fertile plains that the river was known as "China's sorrow". It flows into the Yellow Sea today but has changed its course many times in its history.



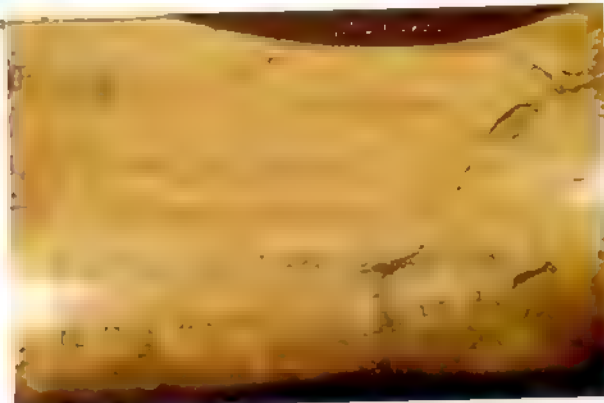
2 This black pottery tripod vessel is known as a *hu*. It represents the final and most developed phase of Neolithic pottery and comes from Lung-shan in the central Yellow River basin. The three legs

are hollow and have the practical advantage of holding the pot upright on the embers and of offering a larger surface to the fire. Pots of this area are characterized by dark, burnished surfaces.



3 This red pottery amphora was excavated from the Pan-po village site in Shensi province and is an excellent example of the red pottery ware of the Yangshao culture. The pots were often painted with designs based on fish

sample of the red pottery ware of the Yangshao culture. The pots were often painted with designs based on fish



4 Oracle bones, usually made from the shoulder blades of oxen or the carapaces of tortoises, were used for divination. Questions in the form of pictures were scratched on the surface of the bone and a red-hot iron applied. The heat re-

sulted in cracks radiating from the burn and these enabled the diviner to read the answer to the question. Pictographs were the earliest form of Chinese writing and the symbols are direct ancestors of the modern Chinese script.

5 The inscription and the human faces on this bronze ritual food vessel or *ting* (14th-11th centuries BC) allude to human sacrifice: the vessel may have been used in the rites. The sacrifice would have been an offering to an ancestor.



burials and to mark the erection of important buildings. One building excavated at Anyang disclosed guards outside the gates armed with halberds and others along the outside walls. Dogs were distributed along the walls and five chariots complete with charioteers and horses were buried in the central courtyard.

The royal tombs were even more exacting in their needs. Ramps led down to the pit [8] containing the coffin which lay in the centre of the deepest part, usually over a smaller grave containing the body of a dog. The pit contained the bodies of people, horses and dogs as well as chariots and all the furniture and household goods needed for the occupant in the next world. Some people had been beheaded and lay in groups of ten with their heads carefully laid in a separate place. Slaves were occasionally buried alive, and in one tomb 70 living people had apparently been buried with the dead.

The Shang Dynasty prospered. The new bronze tools made a variety of trade possible and exchange of foods became necessary. To facilitate trade, money was introduced in the

form of cowrie shells, already one of the world's most popular currencies because of their valuable qualities of size and durability and because they were impossible to forge.

Calendars and cities

The Shang were a fairly sophisticated people and their astronomers produced an accurate calendar based on the lunar month, which was corrected by the addition of seven extra lunar months over a period of 19 solar years.

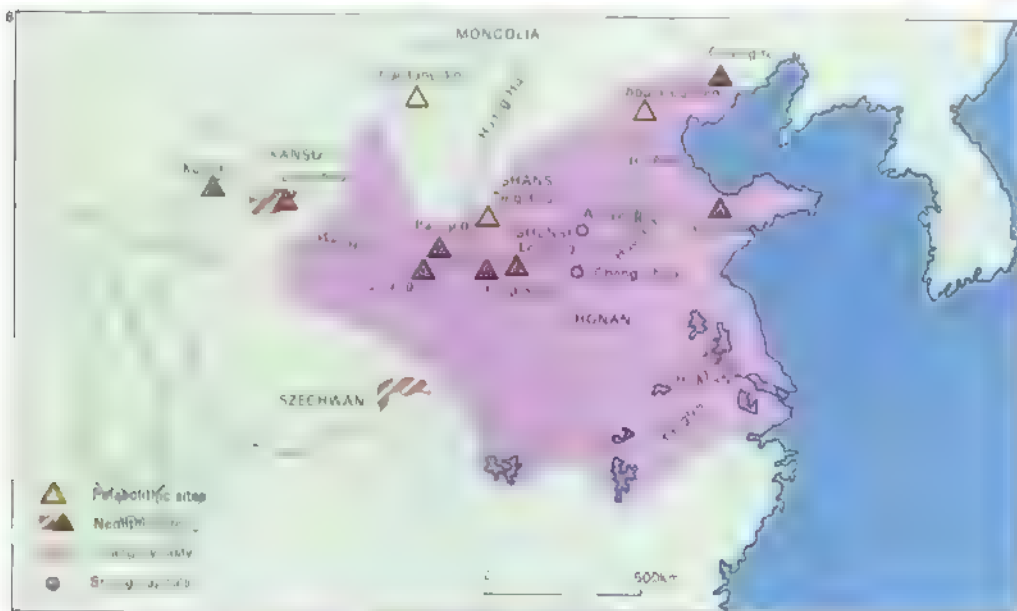
Shang culture spread over central China and traces of it have been found in the Yangtze valley 640km (400 miles) to the south [6]. The Shang method of planning towns in squares can still be seen in Peking. The Shang regarded themselves as the centre of civilization and the name for China still remains Chung-kuo, the Middle Country. However, the rule of Shang was nearing its end. Frequent wars and the oppression of the people by the last ruler, Chou Hsin, finally drove the slaves into revolt. Chou Hsin perished in the flames that destroyed his palace and with this the Chou Dynasty began (c. 1030 BC).



During the Shang Dynasty a highly skilled bronze metalurgy was developed, much later than in the West although

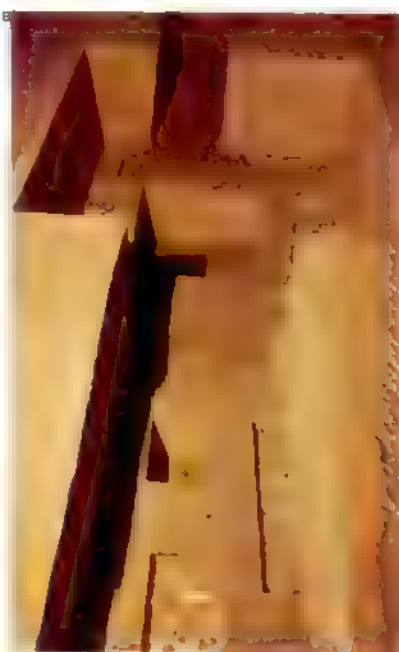
it was still the earliest bronzework in East Asia. The two main weapons used by the Shang people were the bow

and the halberd. This bronze ritual halberd blade from the Shang Dynasty dates from the late 11th century BC.

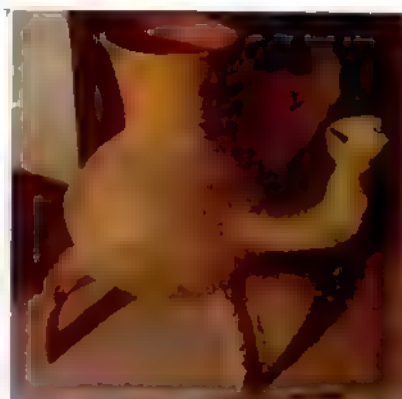


6 Neolithic China was centred on the fertile northern plains around the Huang Ho River. The first dynasty the Shang, ruled first from Cheng chow and later moved north to Anyang.

8 Two ramps lead down to the burial chamber (c. 1100 BC), in the centre of which the coffin is placed over a depression containing the body of a dog. Bodies of funeral sacrifice victims were carefully positioned on the ledge surrounding the coffin. Nothing was left to chance: furniture, clothes, household equipment, food and drink – everything that was needed on earth for the comfort of the deceased was buried with him.



9 Shang Dynasty bronzes were mostly discovered at Anyang, the Shang capital; their uses were ceremonial and funerary. Of the food vessels: *chui* (A) cauldrons had flat bases; the *ting* (B) had three or four legs and handles. Wine drinkers of the *chueh* type (C) had tripod bases, handles and spouts; the *kuo* (D) was a deep cup with a flaring rim. Of the wine and water jugs: the *hsi* (E) had animal or bird forms; the *kuang* (F) had a lid in the back of the animal. The *hu* (G) (yu) (H) and *hih* (I) were wine or water jugs. Raised and depressed decoration with animal motifs. *tsao* (J) was at first representative and later geometrically stylized.



7 The Liang-chu Neolithic culture flourished within a relatively confined area in the region of Shanghai in the northern Chekiang province. It is characterized by a coarse brick red or

sometimes grey pottery, such as this pottery kettle (c. 4000 BC), which frequently adopted curious shapes and forms of a type more usually associated with vessels made from bronze.

Preclassic America to AD 300

The period between 2200 BC and AD 300 saw the rise of the first civilizations in both Mexico, where it is known as the Formative or Preclassic, and Peru. By 1500 BC agricultural villages in both Mesoamerica and South America were developing with craft specialization in such fields as ceramics, society was also moving towards stratification expressed in the first public architecture. The first truly complex society, the Olmec culture, based in the tropical lowlands of the Mexican Gulf coast, had appeared by 1200 BC. The first great ceremonial centre was San Lorenzo Tenochtitlán, where the whole form of a natural ridge was altered by the construction of ridges and platforms.

Spread of Olmec culture

During excavations numerous pieces of monumental sculpture in volcanic stone were found, including giant heads deliberately defaced and buried [Key]. The stone itself came from the Tuxtla Mountains many kilometres away and the presence as well as the sophistication of the sculptures indicates an organized labour force, a body of

specialist sculptors and a powerful government whose patronage extended from sculptors to lapidaries and potters as well. A further range of sculpture and a large conical pyramid were found at another Olmec centre, La Venta.

Olmec trade spread far into the highlands of Mexico, Oaxaca being a source for various minerals, and the valley of the Rio Balsas beyond Mexico City perhaps being the origin of the blue jade favoured by the Olmec. Another possible source is even more distant, in Costa Rica. Rock carvings and cave paintings in Olmec style are known from western Mexico, and the carvings continue eastwards into El Salvador. Whether diffusion of this artistic stimulus was commercial, religious, diplomatic or military, it has a good claim to being the first pan-Mesoamerican style. There is some evidence that the Olmec possessed a system of numerical and perhaps other notation, but whether this can be described as "writing" in its true sense is still a matter for argument.

In Peru from about 1000 BC onwards a similar diffusion of the Chavin style occurred.

The style involves both birds of prey and feline-human compounds [1] with serpent attributes, and is full of arcane allusion. The style is named after the site of Chavin de Huántar, about 3,000m (9,750ft) up and just below and east of the crest of the Andes in central Peru, where a complex of massive stone buildings with subterranean galleries stand round formal courtyards. Some of the galleries contain sculptures, such as the *Lanzón* that stands in the deepest part of the main structure and portrays a mythical being.

Chavin influence on arts and crafts

The Chavin style is also found in pottery, and examples of it are known from as far north as Ecuador, while in textiles Chavin influence is found in the Paracas region [4] in southern Peru. Chavin influence continued until about 200 BC, and may have just continued in a provincial form in the sculptures of San Agustín in southern Colombia. The sites at San Agustín cover a wide area on the hills around the modern town and consist of megalithic chambered monuments and feline, fanged sculptures. They are dated

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1 Human and feline characteristics are combined in a sculpture of a monstrous head projecting from the wall of the Castillo, the main structure at Chavin de Huántar. The undressed but near-masonry contrasts with the sophistication of the carvings. The site lies in a high valley in the upper Amazon basin.



2 Figures of *danzantes* - dancers - at the Zapotec centre of Monte Alban, Oaxaca, Mexico, date from about 500 BC and resemble Olmec art of the same period and earlier. The abandoned poses, closed eyes and various details on the bodies suggest that the figures depict slain warriors.



3 Two sculptured stone slabs or stelae at Monte Alban bear short inscriptions in a form of hieroglyphic writing, including long bars and round discs that probably denote numbers, a bar equaling 5 and a disc 1. These stelae, dating from about 500 BC, are the earliest dated writing in the ancient Americas.



4 Part of a richly decorated textile from the desert cemeteries of the Paracas peninsula on the coast of south central Peru, shows a complex design that is repeated regularly on each of the many panels. These textiles have been preserved by the dry climate of the Peruvian coast, and provide an idea of what may have been lost elsewhere.

from AD 1-500, although more radiocarbon dates might vary this

Elaborate gold work of the Chavin period is found in the Lambayeque valley and other regions of northern Peru. It initiated a tradition of working precious metals that continued until the Spanish conquest. In the Viru valley, south of Trujillo on the Peruvian coast, major centralized settlements developed during the early centuries AD, apparently in response to population pressure and competition for resources. Pucará in southern Peru was an important cultural centre, quite unrelated to Chavin.

From about 500 BC the rise of Zapotec culture [2] in the Valley of Oaxaca in southern Mexico accelerated. The first monumental inscriptions in hieroglyphic script from the New World [3] are found at the great hilltop centre of Monte Albán, together with large stone buildings and low-relief carvings of humans. Another structure, Mound J, could well have been an astronomical observatory. By the end of the Preclassic period Monte Albán already possessed the spacious formal layout, the huge open plazas

and the massive platforms that mark its further development in the Classic.

The Valley of Mexico, after a period of independent political units round the margins of its broad, shallow lakes. Among these was Cuicuilco, which was destroyed about the time of Christ by an eruption [5].

Teotihuacán, a rival state in the northeast of the valley, grew in the next century into a centralized, planned urban settlement [6] which by AD 150 covered more than 20 sq km (7.7 sq miles), with a growing population. Teotihuacán trade extended a long way eastwards into the Maya area by about AD 400.

The beginning of the Maya culture

The Maya are the reason for the Classic period formally beginning at AD 300, because that is roughly when they started to erect monuments bearing inscriptions [8] in the Long Count, a complex calendar that enables Maya monuments [7] to be dated to within a day. It now seems that Maya culture itself acquired most of the attributes of civilization during the late Preclassic period.

This giant head of the Olmec period, found at San Lorenzo Tenochtitlán near the Gulf Coast of Mexico, dates from about 1200-900 BC. Several such heads were found at the site, and others are known from La Venta and a number of smaller sites including the early Laguna de los Carros. They are thought to depict the Olmec rulers and are made of volcanic rock brought at least 100 km (60 miles) from the Tuxtla Mountains, giving strong evidence of the social control exerted. The Olmec culture is the first complex society in Mesoamerica to attain a level that can be described as 'civilization' and it stimulated later developments.



5 The circular and stepped pyramid at Cuicuilco in the Valley of Mexico on the edge of present Mexico City was the main structure of a city that flourished at about the time of Christ. It was overwhelmed by an eruption of the volcano Xitle and buried under lava but has recently been excavated and restored.

6 Teotihuacán, a great city in the northeastern basin of Mexico, began its dramatic rise about 100 BC and from AD 100-700 had a population approaching 200,000. The long Avenue of the Dead runs south from the Pyramid of the Moon to the citadel and market compound in the centre of the city.



7 Reconstruction of Pyramid E-VIII. Sub shows a Preclassic temple of about AD 200-300 at the

Maya site of Uaxacún, Guatemala, which archaeologists found preserved beneath a later structure.

8 Maya writing has more than 800 hieroglyphs, few of which have been translated although the Maya

calendar is understood. This is part of an inscription on one of the stelae at Quirigua, Guatemala.



Egypt 1570 BC to Alexander the Great

The New Kingdom in Egypt (c. 1570–1085 BC) dates from the victory of Theban forces over the Hyksos rulers of Egypt. New Kingdom Egypt was an empire extending from the northern Sudan to Syria and was one of the major powers of the ancient world. The god of Thebes, Amun, was elevated to the rank of principal deity of the realm and was identified with the sun-god Re in the form Amun-Re, king of the gods [1]. Much of the wealth that flowed into Egypt as a result of its conquests was directed towards the service of Amun and his priesthood.

The consolidation of Egyptian power

The early kings of Dynasty XVIII were primarily engaged in rendering Egypt safe from any further incursions by the Bedouin in the east or the Nubians in the south. After stabilizing the eastern frontier the Egyptian rulers undertook a series of campaigns to conquer the kingdom of Nubia in the south and to seize its gold mines. The lack of male heirs to the throne from the marriage of the ruler to his full sister led to the increasing importance of the royal heiresses. One such

was Hatshepsut (r.c. 1503–c. 1482 BC), wife and half-sister of Thutmose II, who bore her husband no sons. On his death the child of a concubine, Thutmose III (reigned c. 1504–1450 BC), was placed upon the throne and was presumably destined to marry his half-sister. However, his stepmother Hatshepsut later seized the throne for herself and ruled together with Thutmose III, who was allowed no real power.

On Hatshepsut's death, Thutmose III assumed effective control of the government and immediately embarked on a series of campaigns to subjugate the petty kingdoms in Palestine and most of Syria. He also completed the conquest of Nubia as far as Napata and his immediate successors continued his expansionist policies.

Under Amenhotep III (reigned 1417–1379 BC) the Egyptian court reached the height of its prestige, receiving tribute or trade goods from Syria, Mesopotamia, Anatolia, Crete and even Greece. His son Amenhotep IV or Akhenaten (reigned c. 1379–1362 BC) changed the Egyptian religion by his worship of the sun-god in the

form of Aton, the sun's disc, and moved the capital to the new city of Akhetaten (Amarna). Akhenaten's policy encountered the opposition of the priesthood of the old gods and led to domestic anarchy and the weakening of Egypt's prestige abroad. His successors abandoned his beliefs and order was finally restored in the reign of Horemheb, the last ruler of the dynasty. Upon Horemheb's death the throne passed to his vizier Ramesses I (reigned c. 1320–1318 BC), who founded Dynasty XIX (c. 1320–1200 BC).

Confrontation with the Hittites

The aim of the rulers of this period was to restore Egypt's power and prestige abroad and to confirm Egypt's dominant position in Palestine in the face of the growth of the power of the Hittite Empire. This rivalry led to a major clash in Year 5 of Ramesses II (reigned 1304–1237 BC) [Key] at the town of Kadesh, where both the Egyptians and Hittites claimed victory. Peace was eventually concluded between the two combatants in Year 21 and sealed in Year 34 by the mar-

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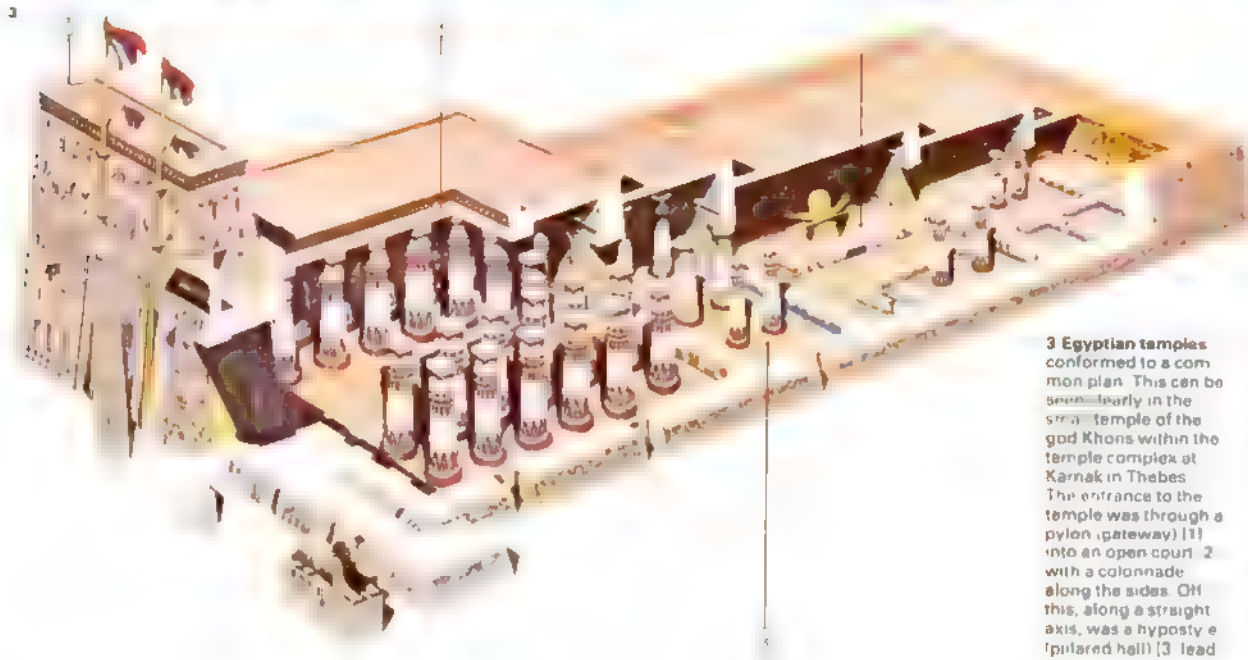


1 The ancient cult of the sun-god Re had been eclipsed by the rise of the god Amun, until Akhenaten tried to suppress the wor-

ship of all gods except Re. The sun-god was represented in the form of the Aton or sun disc, adored here by his queen Nefertiti.



2 This treasure pectoral with solar and lunar emblems (A) and a necklace of the rising sun (B), is from the pyramid tomb of Tutankhamen who succeeded to the throne through his marriage to Akhenaten's daughter and heiress. Bowing to political pressures, he renounced Akhenaten's religion and abandoned Amarna, returning to Thebes and restoring the worship of Amun and other gods. He died c. 1340 BC. His pyramid tomb was the only one left intact. Persistent robberies ended the system of pyramid burials. In stead cliff tombs were cut in the well-guarded Valley of the Kings.



3 Egyptian temples conformed to a common plan. This can be seen clearly in the small temple of the god Khons within the temple complex at Karnak in Thebes. The entrance to the temple was through a pylon (gateway) [1] into an open court [2] with a colonnade along the sides. Off this, along a straight axis, was a hypostyle (pillared hall) [3] lead-

ing to the sanctuary [4] where the image of the god lay. Service and storage rooms surrounded the sanctuary. Because each Egyptian temple was determined to create an enduring reputation through building works, most major temples were forever being enlarged and remodelled by the addition of more courts and rooms to the existing structure.

riage of Ramesses II with a Hittite princess. His successors were faced with increasing threats from Libyan tribesmen and piratical "Sea-Peoples", but these threats were contained by Ramesses III, (reigned c. 1198-1166 BC) of Dynasty XX [6].

Under Ramesses III's successors, who were also all named Ramesses, the power of the crown steadily declined in the face of increased Libyan incursions and the growth in the power of local governors, especially that of the high priest of Amun at Thebes. Egypt's foreign possessions in Palestine and Nubia were lost by the end of the dynasty and Egypt itself fell under the control of foreign rulers. Under Dynasty XXI, which ruled from the northern city of Tanis, Thebes was virtually independent under its high priests. The unity of Egypt was restored by the Libyan general Shoshenq I (reigned c. 935-914 BC), founder of Dynasty XXII. He installed his own son as high priest of Amun and attempted to restore Egypt's position as a great power by embarking on a major campaign in Palestine. Under his successors the unity of the country was broken by civil wars

and Egypt was partitioned into city states under independent dynasts, mostly of Libyan origin. An independent kingdom had emerged in Nubia in the south and the Nubian kings conquered Egypt in about 712 BC and founded Dynasty XXV.

Nubian rule was terminated by a series of Assyrian invasions that led to the nomination of the prince of Sais as puppet ruler of Egypt. With the help of Greek mercenaries, Psamtik I (reigned c. 664-610 BC) of Dynasty XXVI managed to impose his authority on the whole country and broke with Assyria.

Defeat by Babylon and Persia

The rule of Dynasty XXVI (670-525 BC) marked a period of renewed prosperity but Egypt's hopes of restoring her position as a great power were defeated by the Babylonians at the Battle of Carchemish in 605 BC. Ultimately in 525 BC Egypt was absorbed by the Persians and although subsequent revolts re-established Egyptian independence briefly between 404 and 343 BC, the Persians reasserted their domination until the arrival of Alexander the Great in 332 BC.

PCV



Ramesses II ensured that his name would be remembered by his extensive building projects. He added the hypostyle hall to the temple of Amun at Karnak and made additions, including the colossal statue of himself to the temple of Luxor. On the west bank at Thebes he built his mortuary temple, the Ramesseum. For his favourite queen, Nefertari, a tomb decorated with superb paintings was constructed in the Valley of the Queens. In Nubia he erected the great temple of Abu Simbel, as well as other temples elsewhere in Egypt. He also constructed the city of Pi-Ramesses, his northern capital, possibly using the labour of Hebrew slaves as mentioned in the Bible.



4 The brilliantly painted tombs of the New Kingdom at Thebes reflect the life led by Egyptians of all classes. It was believed that these scenes could be magically brought to life so that the dead man would not be bereft of his possessions and pleasures on entering the next world.

5 The economy of Egypt was agrarian: most of the people working on the land. In theory all land was held by the crown but in practice large estates were also held by the official classes and the temples. A limited number of peasant proprietors also owned tracts of agricultural land.



6 The invasion of the "Sea-Peoples", including the Philistines and maybe the ancestors of the Sicilians,

was repulsed by Ramesses III at the end of the New Kingdom.

7 Most tombs in the New Kingdom include a *Book of the Dead* containing

spells intended to guarantee the safe passage of the deceased to the afterlife.

Africa: Kush and Axum

During the course of ancient Egyptian history, the armies of the pharaohs pushed the frontier of their empire ever farther south along the axis and heart of their civilization the Nile, towards tropical black Africa. By the time of the New Kingdom (c. 1500 BC) all the riverine lands as far as the Fourth Cataract – that is, in the middle of the great S bend of the Nile – had been conquered and to some extent settled by Egyptians. This country, later called Nubia, was known to the Egyptians as Kush and in time a typical late Egyptian civilization flourished there.

The emergence of the Kushite kingdom

By about 1000 BC the New Kingdom had fallen and Kush emerged as an independent state – independent not only politically from Egypt, but increasingly also culturally. In 200 years its rulers had grown so independent and powerful that in 725 BC they were able to march down the Nile and conquer the whole of Egypt, where they formed Dynasty XXV of the Pharaohs [2].

Kushite control of Egypt, however, was short-lived. Between 676 and 663 BC Assy-

rian armies invaded and devastated Egypt first under Esarhaddon and later under Ashurbanipal. The Kushite pharaoh Taharqa retreated southwards to Kush. What had made the mighty Assyrian armies almost invincible over much of the Middle East was their possession of iron weapons, which were much superior to the bronze weapons of their foes. The leaders of Kush had learned a hard lesson and took with them the Assyrian knowledge of iron technology. This was to be the basis for the stability of Kush.

After the withdrawal from Egypt, the rulers of Kush expanded southwards, keeping to the valley of the Nile. The country on either side of the great river was more fertile than it became subsequently and could support large herds of cattle. By the sixth century BC the frontier of Kush had reached just to the south of present-day Khartoum where the land was well wooded.

Dominance of the Meroe civilization

The power centre of the empire swung to the south, from the old capital of Napata (near the Fourth Cataract, where the surrounding

land had become over-grazed) to Meroe south of the Atbara's confluence with the Nile. From this time, the empire is often referred to as Meroë, rather than Kush. Whereas some of the inhabitants of the northern part of Kush were black people, now nearly all the people in the country around Meroë were black and the empire became a black state.

Meroe had abundant iron-ore and wood with which to smelt it. The iron industry of the empire was on a large scale. Immense slag heaps still litter the landscape. The well-armed horsemen of the Meroe army were able to defend the settled lands from attacks of desert nomads. A flourishing trade was maintained with Ptolemaic Egypt, Arabia and even India, via the Red Sea.

By the beginning of the Christian era, however, the civilization of Kush-Meroe had begun to decline. This was the result of internal impoverishment, especially the drying up of once rich grazing and agricultural lands. Attacks by nomads became more difficult to contain, and the empire finally collapsed when invaded by a powerful army

CONNECTIONS

See also



1 Civilizations of Kush/Meroë and Axum occupied the northeast corner of Africa. Kush/Meroë in the middle Nile valley south of Egypt and Axum on the high mountain escarpment of northern Ethiopia. Axum was the founding state of the Christian empire of Ethiopia.



2 Narwe was governor of Thebes during the reign of one of the Kushite line of pharaohs in the 8th and 7th centuries BC. The Kushites had moved north and ruled Egypt until they were defeated and driven back to their old lands by a new invader – the 'iron armies' of the Assyrians.



3 The Lion God of Kush was engraved on a temple wall at Napata, 100 BC.

AD 100, a centre south of Meroë. The carvings show an Indian influence.

4 An elephant and war captives form a temple frieze near Meroë, first century.

AD Elephants were used for military and ceremonial purposes at Kush-Meroë.

from neighbouring Axum in AD 350.

The empire of Kush/Meroë had been in existence for over 1,000 years and its cultural achievements were rich and vital [3, 4]. They represented far more than an Africanized form of Egyptian culture. The inhabitants of the empire took their Egyptian heritage, borrowed more from the Hellenistic world and India, and fashioned something unique including their own form of writing, a cursive script that has to date defied all efforts to decipher it [Key].

Atom, the rival empire in Ethiopia

Axum, the rival empire of Meroë, had its origin not on the African continent, but in Arabia. A number of small but prosperous states grew up in the Yemen early in the first millennium BC, one of which, Saba, was probably the Sheba of King Solomon's time. By about the seventh century BC Semitic speaking people from the overpopulated Yemen split over the Red Sea to the Horn of Africa, settling as farmers on the north eastern edge of the high plateau of Ethiopia. There they prospered and were able to domi-

nate the indigenous Kushitic-speaking peoples, many of whom gradually accepted the culture and the Semitic language of the newcomers. One group of these, called the Habashat, established a kingdom in the third century BC, centred on Axum [6, 7].

The Hellenistic Greeks were influential at the court of the kings of Axum and prepared the way for the reception of Christianity. The missionary responsible for the conversion of the kingdom in the fourth century AD was a Syrian called Frumentius (c. 300-c. 380). He was called bishop of Axum by the patriarch of Alexandria and within a few decades Christianity had been established there. The rulers of Christian Axum conquered parts of southern Arabia in the sixth century AD before being driven out by Persian forces. From there on Axum went into gradual decline: the Muslim Arab conquest of Egypt disrupted her Red Sea trade and when the kingdom was devastated by nomads her power withered. Nevertheless, its political, religious and cultural traditions survived to be revived in the Middle Ages deep in the heartlands of Ethiopia.

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**The mysterious
Meroitic script (A)**
is still unde-

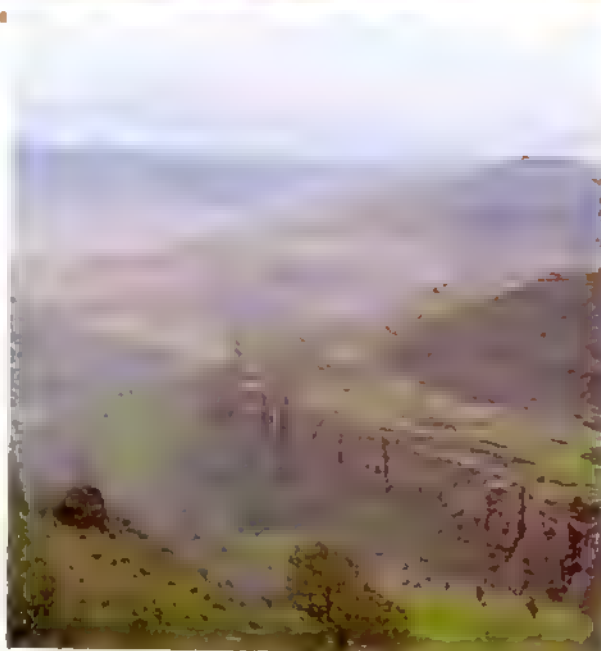
ciphered The Salt
an script (B of
Axum is the fore

runner of modern
Amharic, the
language of Ethiopia



5 Christian art

From vanished Christian kingdoms survived in a church at Faras, near Wadi Halfa, which has now been engulfed by the waters of the Aswan dam. Christian kingdoms succeeded Kush Merop after the empire collapsed in the fifth century AD shortly before Egypt became part of the realm of Islam.



6 Rich in products

Axum in products that drew Greek, Arabian and Indian merchants alike. Axum was a land of soaring crags, the highest (Rasdejen) at 4 620m (15 158ft). One of the most difficult African lands to live in or invade it was to enter European mythology as the home of the legendary Christian king, Prester John.



7 The tallest surviving stela or obelisk, at Axum is one of the many

splendid monuments
erected by the
rulers of the
kingdom of Axum

as their wealth grew from trade passing through to Arabia and India.

The Hittites 1700–1200 BC

A hundred years ago knowledge of the Hittites was derived only from mentions in the Bible and in Mesopotamian records, but then, in the nineteenth century, discoveries began in Turkey of monuments and massive fortifications which had obviously survived from a flourishing and powerful civilization. This civilization was quickly identified as Hittite. What finally brought these peoples into vivid life was the discovery at Boğazköy, the site of the Hittite capital Hattusas, of more than 10,000 cuneiform tablets. The tablets were written in several languages, including Akkadian, Hattian, Hurrian, Luwian and Sumerian as well as Hittite, and were found to be the state archives.

Origins of Hittite civilization

Little is known about the earliest period of the Hittite civilization before contact with Mesopotamia. The Hittites came into Asia Minor before 2000 BC from Europe or southern Russia. In the middle of the seven-teenth century BC King Hattusilas I seems to have united a number of small states and established his administrative centre at Hat-

tusas. Hittite power evidently grew rapidly for in the early sixteenth century BC Mursilis I was able not only to occupy Syria but to march on Babylon, sacking the city and bringing to an end the dynasty of which Hammurabi was the greatest figure. The last king of the so-called Old Kingdom was Telepinus (reigned c. 1525–1500 BC), who is best known for his edict laying down rules of conduct for the nobles and the king.

After a period of which there are few records, the Hittite Empire began about 1460 BC. The first king of the new dynasty was apparently Tudhaliyas II, who is said to have captured Aleppo. Mitanni, a state founded by the Hurrians in northern Mesopotamia, seems to have kept further Hittite expansion in check.

The situation changed radically when Suppiluliumas seized the throne in about 1380. He fortified Hattusas and in a brilliant campaign conquered Mitanni and its Syrian satellites. Carchemish, which commanded an important crossing point on the Euphrates, remained independent, but Suppiluliumas then led a second campaign, captured this

fortress and occupied all of Syria between the Euphrates and the ocean.

Suppiluliumas died in about 1346 BC. His son Mursilis II proved equally capable, defeating the kingdom of Arzawa to the west and suppressing a revolt in Syria. The next king, Muwatallis, inherited a secure and prosperous empire. But Egypt was determined under Ramesses II (reigned 1304–1237 BC) to regain the possessions and influence she had lost in Syria. The two armies met at Kadesh [7] on the River Orontes. Egypt claimed an overwhelming victory, but the Hittites seem, at least, to have held their own and maintained their ascendancy in Syria. Relations between the two powers improved as Assyria became more of a threat, and in about 1284 BC they signed a treaty of friendship and non-aggression.

The end of the Hittite Empire

The records of the Hittite Empire end abruptly in the late thirteenth century BC when Indo-European invaders known as the "Sea-Peoples" poured into the area from Europe. The Hittites fled southwards as the

CONNECTIONS

See also

1000 BC
1500 BC
1600 BC
1700 BC



1 The impressive sanctuary of Yazılıkaya is open to the air and is cut from the rock outside the walls of Hattusas, the Hittite capital. Spectacular reliefs are carved on the sides of two

chambers, which are approached through an elaborate gate way. They depict processions of gods, goddesses and kings, many of the deities being shown with their cult animals, weapons and symbols.

Some of the gods are the patrons of Hittite cities and all are named in hieroglyphic script. The principal scene shows the weather god Teshub standing on a bull, facing him are his

consort and his son and beneath him are the gods of the Hurrian pantheon. During the later years of the empire Hittite religion came under strong Hurrian influence, as the carvings here illustrate.

2 The rock carving at Ivritz in the Taurus Mountains exemplifies the Aramean style in Hittite sculpture, as is shown in particular by the god's cap and by the ringlets and profiles of both figures. But while the king wears an Assyrian cloak of a kind familiar from the royal statue from Malatya, the god's clothing has little that cannot be paralleled in purely Hittite sculptures, including the clear curved seam above the knees. The combination of relief and script facilitated the grouping (in 1880) of similar monuments reported from elsewhere in Asia Minor, notably at Boğazköy and Yazılıkaya, as Hittite. The inscription names the king as Warpalua was (about 730 BC), so dating the relief.



3 Among the chief deities in the Anatolian pantheon were the weather god Teshub [A], and the sun goddess Arinna [B]. Teshub is shown in a ninth-century statue in his customary pose, wielding a flash of lightning, for unlike Mesopotamia, Anatolia is a land of cloud and storms. To the sun goddess, shown in a pendant of the empire period, the king appealed for help in times of war and danger, she was supreme patroness of the Hittite state.



4 Most surviving Hittite sculpture takes the form of monumental bas-reliefs in stone, often with inscriptions in hieroglyphic (as distinct from cuneiform) Hittite. The almost total absence of sculpture in the round is partly compensated for by a few beautiful miniature figures like this gold statuette (4.2cm [1.7in] high) of a man, perhaps a king, wearing a full tunic with short sleeves. It was found at Yazılıkaya, near Boğazköy, and dates from about the fourteenth century BC.

Phrygians overran Asia Minor. But although the homeland was lost, the Hittite way of life survived as the refugees established city states in northern Syria, which had so long been under Hittite control. Most of the archaeological evidence comes from this neo-Hittite revival rather than from the early imperial period. The writing of these petty kingdoms is hieroglyphic Hittite, but the language was essentially Luwian, so that we may assume that the Hittites did not necessarily form the majority of the population.

Structure of Hittite society

The neo-Hittite city states, which were often isolated geographically, were unable to unite effectively against the growing power of Assyria. After exacting tribute over many years and putting down occasional rebellions, Assyria under Tukulti-Ninurta III (c. 744-727 BC) decided to incorporate the Syrian kingdoms into its empire, and by the end of the eighth century BC the Hittite Empire was little more than a memory.

During the period up to the end of the thirteenth century BC, the Hittite king

although perhaps not quite such a dominant figure as in Mesopotamia, made the final decision on military, religious and judicial matters [4]. On his death he joined the god, and indeed "he became a god" was a euphemism for the death of a king. The queen was also important, having a role to play in state affairs. Nepotism was institutionalized, most of the highest offices falling to the king's relations. There seems to have been an exclusive caste of privileged nobility and landowners. The common people worked as farmers, craftsmen and labourers, and those of the servant class, while having some legal rights, were little better than slaves.

The brutality that so distiguishes the history of Assyria was quite lacking among the Hittites. A city captured was sacked and its inhabitants enslaved, but we know of no mass killings or systematic tortures such as Assyria's enemies could expect. Similarly, punishment for crime was generally based on restitution to the injured party or his relatives, even in the case of murder.

KEY



A double-headed eagle carved on the back of a sphinx at Alaja Hüyük in Turkey, a city of the empire period. It is clutching a staff with two handles with bird faces turned outwards like

the eagle's heads. A figure, now badly damaged but perhaps a goddess, stood on the eagle's back. The same double-headed eagle motif appears also as a base for two standing figures, among the sculptures of Yedigöller.

key. A double-headed eagle, a type of eagle which appeared in the ancient world for example on an early geometric-period ivory from Sparta, and on a shrine at Taxila and survives on the banners of the Kandyan chiefs.

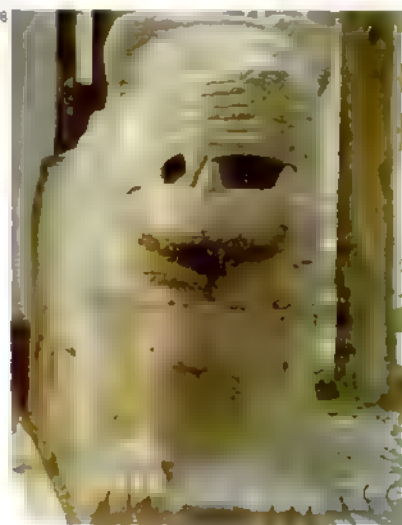
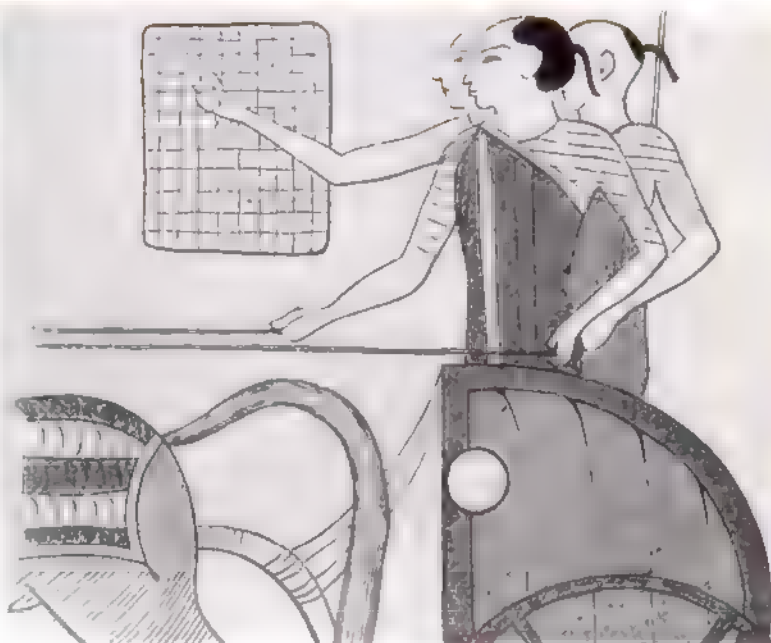


5 In the sphinx gate at Alaja Hüyük in central Turkey, the sphinxes, unusual for Hittite art, are sculpted with human faces. Many tablets were found in the ruins, depicting animals, musicians,

jugglers, and a shepherd with his flock. Pre-Hittite tombs of the third millennium were also discovered there and contained silver and bronze objects, including golden jugs, goblets, and ornaments.

6 The excavation of Karatepe, northeast of Adana, revealed a bilingual inscription, one text in hieroglyphic Hittite and the other in Phoenician, which confirmed and amplified the decoding of the Hittite.

7 Use of the light war chariot, shown in this drawing of an Egyptian relief, accounted in part for the Hittites' military successes, particularly the drawn battle at Kadesh (1299). Hittite chariots differed from those of Egypt and other nations of the period in that they carried three men: one driver and two fighters, instead of the usual one driver and one fighter. The main tactical aim of the Hittites in battle was to draw the enemy into the open where the chariots would be most effective. But their planning was not based solely on that manoeuvre. A clever ruse, for example, caught the Egyptians entirely by surprise at Kadesh, and only bad luck prevented an overwhelming victory.



8 This basalt carving of a lion from Malatya, dated probably about 1000 BC, is fairly typical of the

sculpture of the neo-Hittite period, when the use of stone lions to flank entranceways was not uncommon.

land. No more concrete evidence of Phoenician colonization in Italy exists though there were close trading ties. But in the central and western Mediterranean the Phoenicians established a chain of colonies which made them dominant in the area.

Phoenicia also founded several colonies on the North African coast [9] at an early period, including Utica, Hadrumetum (modern Sousse) and Leptis Magna. But the most distinguished of all the settlements, eventually surpassing its mother city, Tyre, in power, was Carthage [7], which dominated although it did not rule the Phoenician colonies in the west. The most important of these were Gades (modern Cadiz), Fhesus (Ibiza), which Carthage founded in the middle of the seventh century BC, and Carthago Nova (Cartagena), founded by Hannibal's son in law Hasdrubal in 228 between the first and second of the Punic Wars (which ended with the destruction of Carthage by Rome).

A policy of colonization is often accompanied by an impulse towards exploration and the Phoenicians appear to have been

enthusiastic explorers. The Greek historian Herodotus reports a story that Phoenician ships circumnavigated Africa, returning in three years to Egypt. Herodotus himself may not have credited this feat, but the details he gives make it possible that the remarkable voyage did take place. According to a much later Roman geographical work, the Carthaginian Himilco sailed from Spain up the Gallic coast to Brittany, and there is a possibility, although no archaeological evidence, that he reached Cornwall in an attempt to gain a share of the tin trade.

The legacy of a rich literature

Much light has been shed on the mythology and beliefs of the area in pre-Iron Age times by the discovery and decipherment of the cuneiform texts of Ugarit. Although few inscriptions or documents have survived of the once rich Phoenician literature, these relics are important because the Phoenician alphabet was the basis of the Greek alphabet. The Phoenicians spoke a Semitic language which they wrote in an alphabet of 22 consonants with no vowels.



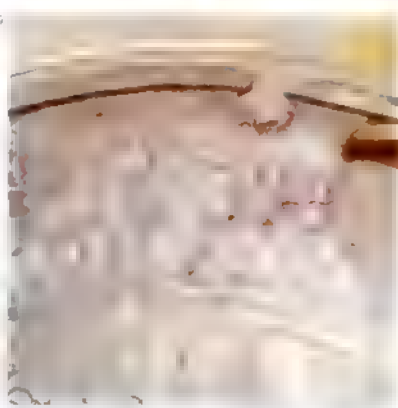
This Phoenician ivory carving may be Ishtar, the

Mesopotamian fertility goddess. Her Phoenician equivalent

Anat (Astarte) was a chief helper of Baal, the Canaanite god

6 Egyptian influence

is featured almost all the time in metal bowls found on Phoenician sites. Many like this bowl (seventh century BC) from Amara in Egypt, all have Assyrian characteristics. The outer frieze depicts a Phoenician city being besieged by Assyrians and Greeks, as in the detail here. The inner frieze includes Egyptian deities and also Phoenicians with Egyptian amulets.



7 The precinct of Tanit at Salammbô

was used throughout Carthage's history. Tanit was another name for Anat or Astarte, the chief female deity of the Phoenicians. Many stelae with symbols of Tanit and dedicatory inscriptions have been discovered in the precinct, but the most sensational finds were thousands of urns containing the ashes of cremated babies, clear evidence of infant sacrifice in Carthage.



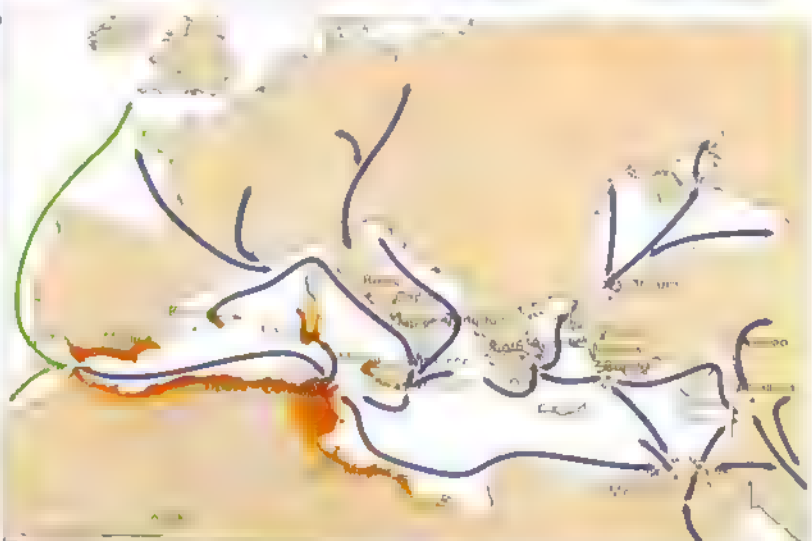
8 Lu'li, the king of Tyre and Sidon

fled to Cyprus in 701 BC. During his reign he formed alliances with Egypt and Judah, as illustrated as far as he could, continual Assyrian aggression.

Eventually, however, Sennacherib, 704-681 BC, king of Assyria, forced the departure and deported the king and his people to a place which is now lost from memory. The relief shows two kinds of ship. The

long ships, long runners of the time, were used for war and exploration and had a double bank of oars, with sails, a rudder at the prow and a high stern. The round ships, used for trading also,

had two banks of oars but were smaller, with a stern and prow of equal height. Both types of ship had steering oars on each side of the stern. The upper decks were hung with shields.



9 Carthage extended Phoenician influence in Spain, Sardinia and North Africa. The Phoenicians had

several footholds in western Sicily and in 480 BC the Carthaginians made an unsuccessful invasion of the

north to aid Xerxes. At the end of the fourth century they waged an unsuccessful war against Syracuse.

The Assyrians 1530–612 BC

The Assyrians, a Semitic people in north-western Mesopotamia, enjoyed a material culture in the mid-third millennium comparable to that of the Sumerians and briefly emerged as a military force under Shamshi-Adad I early in the eighteenth century BC. But for the next four centuries the strongest kingdoms in Mesopotamia were those of the Kassites, who came from the Zagros Mountains to take over Babylonia in the south, and of the Hurrians, who established the state of Mitanni in northwestern Mesopotamia. In the 14th century BC Ashur-uballit led the revived Assyrians into Mitanni after that state had been shattered by Hittite invaders.

The empire established

Adad-nirari I (reigned 1307–1275 BC) pushed Assyria's frontiers up to the Euphrates, and Shalmaneser I (reigned 1274–1245 BC) advanced northwards and finally crushed the Hurrians. The first of the really great Assyrian monarchs was Tiglath-Pileser I (reigned c. 1115–c. 1077 BC), who came to the throne after a period of instability in western Asia. By a succession of

military campaigns, which combined brilliance and brutality, he extended Assyria's authority far into the north and northwest, overrunning Syria and exacting tribute even from the rich trading cities of Phoenicia.

Tiglath-Pileser succeeded, though with difficulty, in keeping back incursions by Aramaean peoples from the western desert. But after his death Aramaeans and Chaldeans overran almost the whole of Mesopotamia, where a kind of Dark Age lasted for more than 150 years. When Adad-nirari II came to the Assyrian throne in 912 BC his kingdom was a strip little more than 100 miles long and 50 miles wide. Yet by the middle of the seventh century BC Assyria was the largest and most powerful state in the civilized world.

Ashurnasirpal II (reigned 883–859 BC) [5] was mainly responsible for the restoration of Assyrian dominion. He built up the army into an irresistible fighting unit and led it to the shores of the Mediterranean. At his new capital at Calah (Nimrud) he built a vast palace, the doorway flanked by winged bulls. The glory of Assyria was paid for by the

sufferings of its foes, many inscriptions testifying to the tortures inflicted on soldiers and civilians alike. Ashurnasirpal's son Shalmaneser III (reigned 858–824 BC), his father's equal in brutality, continued to conduct annual campaigns [2], but with less success.

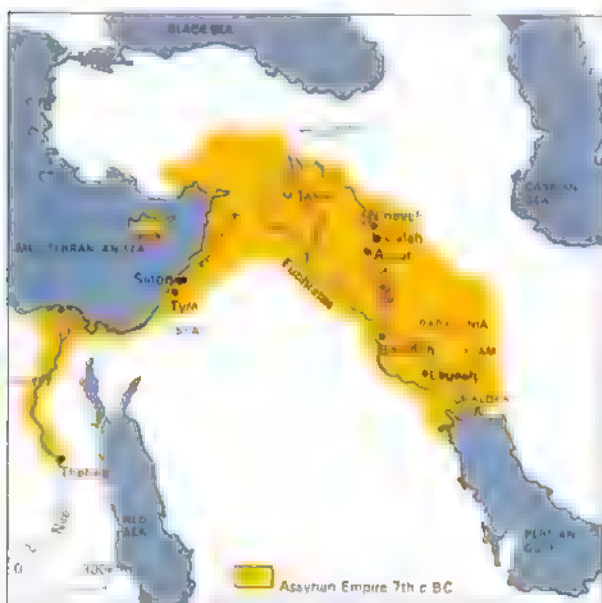
The surge of imperialism

A series of weak rulers and the growing power of the kingdom of Urartu to the north made Assyria's position a precarious one. The situation demanded a decisive and intelligent personality to meet the threat, and the Assyrians were fortunate to find such a one in Tiglath-Pileser III (reigned 745–727 BC). He reasserted Assyrian authority and established a uniform administration. He transformed conquered lands into provinces, each under its own governor and paying a fixed tribute to the central authority in addition to various taxes and duties. Although the governors had considerable authority, they were supervised by the central government to which they sent regular reports through a remarkably effective system of posting stages. Tiglath-Pileser initiated a policy of

CONNECTIONS

See also

1530–1500 BC
1500–1450 BC
1450–1400 BC
1400–1350 BC
1350–1300 BC
1300–1250 BC
1250–1200 BC
1200–1150 BC
1150–1100 BC
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900–950 AD
950–1000 AD



1 Assyria's empire reached its greatest extent in the seventh century BC during Ashurbanipal's reign. He subjected its peoples to merciless repression inflicted by his army, in whose ruthlessness

he gloried, and ruled through an efficient administrative system supervised by the central government. Assyrian hegemony collapsed, however, and was followed by a brief resurgence of Babylonian rule.

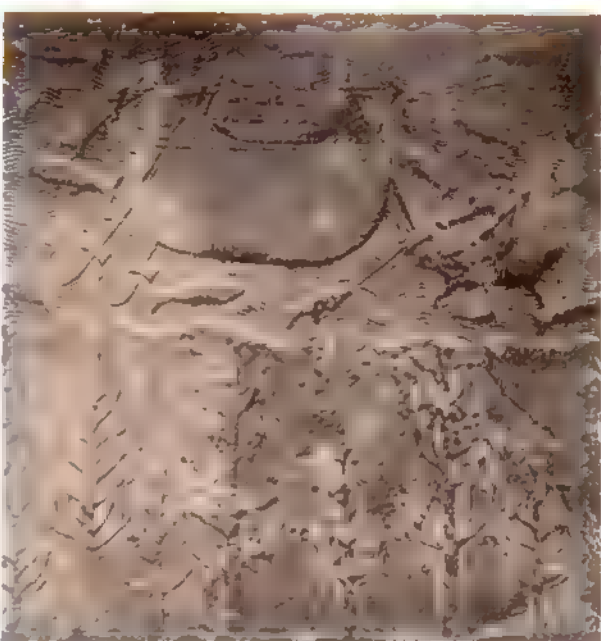
2 Jehu, the King of Israel, is shown bowing to Shalmaneser III (reigned 858–824 BC) on this panel from the gates of Balawat. The panels record many of Shalmaneser's campaigns against Babylon, northern Mesopotamia

and Syria, which after several wars he failed to subdue entirely. But he was able to force Tyre and Sidon to pay tribute to him and in 841 BC Israel too was forced to become a tributary.



3 Sennacherib's siege of Lachish, a Judaeen city, is portrayed on stone panels from Nineveh. The city's fall was followed by the submission of King Hezekiah of Judah. Many siege machines developed by the Assyrians are represented on stone panels such as the one shown here.

4 A skin boat on the Tigris carries perhaps building materials for Sennacherib's palace. Herodotus tells how circular hide boats floated down the Euphrates, carrying one or more donkeys in addition to the cargo. On arrival at Babylon, the boats were broken up and loaded on the donkeys for the return journey over land to Armenia.



mass deportations of defeated or rebellious peoples. By the end of his reign Urartu was no longer a threat and Babylonia, Palestine, Syria and Phoenicia were completely under Assyrian control.

Babylonia, however, was coming increasingly under the influence of the Chaldean tribes, which dominated the surrounding country, and which remained bitterly hostile to the Assyrians. Sennacherib (reigned 704–681 BC) reacted with characteristic vigour, installing his son on the Babylonian throne. But in 694 BC the Babylonians revolted and invited the help of the king of Elam, who carried off the Assyrian prince to his own country. The brutal war that followed lasted five years and ended with the levelling of the holy city of Babylon by Sennacherib in 689 BC. He made his capital at Nineveh and initiated a vast programme of public works.

Sennacherib was murdered and his son Esarhaddon (reigned 681–669 BC) [Key] at once put in hand the rebuilding of Babylon. He was an able statesman who knew when to temper strength with mercy. Assyrian authority in the east remained supreme and

the Mannaen buffer-state in the north was under Assyrian control. A revolt in Phoenicia was settled by deporting the inhabitants of Sidon and executing its king. But Esarhaddon's most spectacular success was against Egypt. The ruling dynasty there had been fomenting trouble in Phoenicia and Esarhaddon decided to subdue the country.

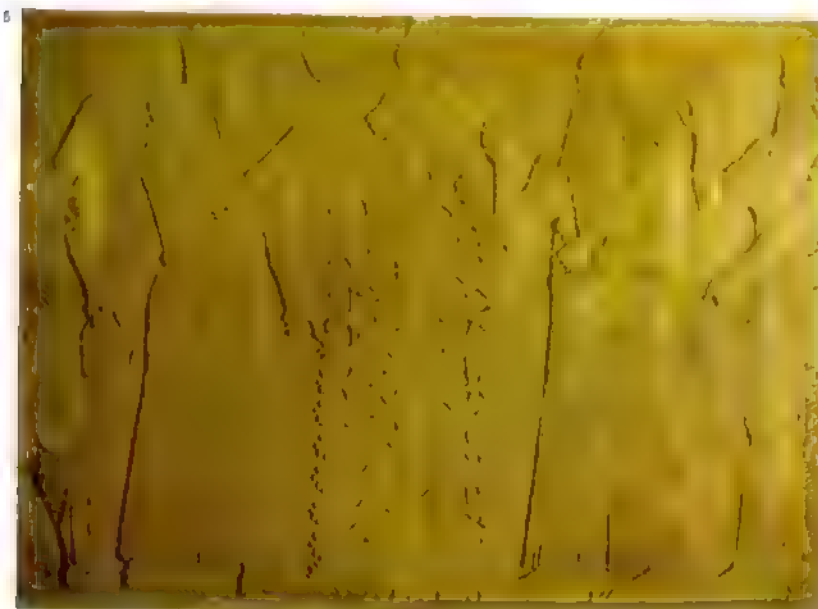
The fall of the empire

Ashurbanipal (reigned 668–c. 627 BC) quelled a rebellion in Egypt and again subdued that country, but as it was too large and too distant an area to occupy permanently [1] its administration was left to local princes. Eventually, Ashurbanipal was forced to withdraw from Egypt since he was involved in a large-scale rebellion headed by his brother, the King of Babylon, in alliance with Elam. Victorious in 648 BC, Ashurbanipal boasted of having the whole world at his feet. Although ruthless, he was also a man of learning. But Assyria could not survive the alliance of Nabopolassar, king in Babylon in 625 BC, with the Medes. Ashur soon fell and in 612 BC Nineveh was destroyed.

KEY



Esarhaddon, the great imperialist Assyrian ruler, is shown on a stele found at Zenjirli which lies northeast of the Gulf of Iskenderun and north west of Aleppo. The king lowers over two suppliant prisoners held by cords through their lips. The standing prisoner may be Ba'alu, King of Tyre although in that case the stele represents Esarhaddon's wishes rather than the facts for Ba'alu rejected his terms and the siege was probably concluded only under his successor. The kneeling, negroid figure may represent either Tarku of Kush or his son Ushankhuru, who was carried off with his family to Assyria. Tarku also retained control of his land.



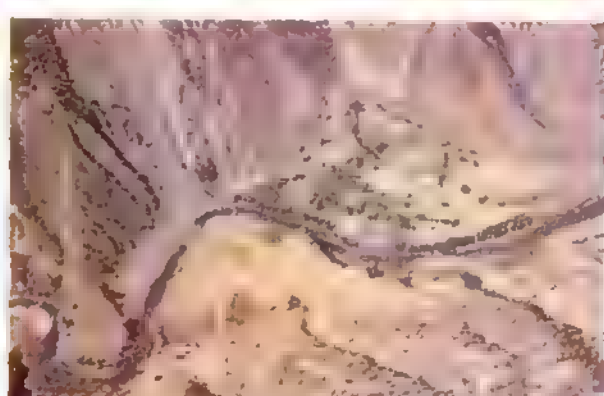
5 Two figures, one of them (to judge from clothing and inscription) perhaps representing the ninth-century king Ashurnesirpal II of Assyria, stand on either side of a 'tree of life'. This motif common in art throughout Western Asia is a symbol of fertility conferred by the goddess Ishtar.



6 Ashurnesirpal's son Shalmaneser III built this dais for the throne in his palace at Fort Shalmaneser Nimrud. Its vertical faces show relief carvings of tribute. The upper surface has shallow, round hollows to house the feet of throne and footstools, and is covered with inscriptions telling of his reign.



7 Painted decoration survived in parts of the palaces at Fort Shalmaneser, including the above figure dressed in a fish-cloak with scales covered legs and holding a pine cone in the fertilization gesture common in the reliefs of Ashurnesirpal.



8 Servants exercise hunting dogs in the royal park in this relief from the north palace of Ashurbanipal II at Nineveh. The Assyrians believed that the king was fulfilling a sacred duty in hunting wild animals, and lions were brought to the

country so that the king could show his skill in lavish hunts. Ashurbanipal was a 'mighty hunter before the lord', and in his day the lions that infested thickets along the Euphrates destroyed not only flocks and herds but also human beings.

9 The valley of the River Zab, in western Iran, a tributary of the Tigris, is typical of the terrain covered by much of the Assyrian Empire. In much of the region mountains ensured that life and communications were centred on the river valleys.

The Hebrews 1200–322 BC

The name Hebrew is of uncertain origin and meaning. A similar name, Habiru, appears in documents of the fourteenth century BC describing races or classes of people, perhaps semi-nomads, who inhabited the northern fringes of the Arabian desert. "Hebrew" has been associated with Eber, the grandson of Shem (Genesis 24) and the forefather of all the Semitic peoples.

The twelve tribes of Israel

The early Hebrews were nomads and tradition tells of the migration of Abraham from Mesopotamia into Canaan, an area later called Palestine, on the borders of Egypt. Abraham's grandson Jacob, renamed Israel ("striver with God"), had 12 sons from whom descended the biblical 12 tribes of Israel. The Bible tells how Jacob's sons sold their brother Joseph into slavery in Egypt. When famine broke out in Canaan, Joseph, who had found favour in Egypt, received his father and his brothers there and they prospered for many years. Much later, their descendants were enslaved, possibly during the reign of Seti I (reigned c. 1309–1291 BC),

their eventual emergence from captivity was organized by Moses.

Both Moses and the Exodus that he led have an historical stamp because to this day they remain in the consciousness of the Hebrew people [3]. According to tradition, Moses was brought up by an Egyptian princess and only later in life did he identify himself with his own Hebrew people. Moses was told by God in a vision to deliver the children of Israel from the captivity of Egypt and lead them into the promised land of Canaan.

The date of this Exodus is uncertain, but it may have taken place in the fourteenth or thirteenth century BC. The captives escaped across the northern end of the Red Sea into the desert and went to Mount Sinai or Horeb. The Law, revealed to Moses on Sinai according to the biblical record, consisted of the Ten Commandments or Decalogue inscribed on stone and later kept in an ark or chest. The longer Law, or the Torah of "five books", the Pentateuch, is traditionally attributed to Moses.

In their present form much in these books suggests a settled agricultural community as

well as a nomadic existence. They include the death of Moses, and the later Temple and rituals were based on them. Moses was followed by Joshua and a series of judges and kings who led the invasion and gradual occupation of Canaan, the eventual goal. Saul was the first Hebrew king, successful in defeating some tribes such as the Amalekites, but was himself killed by the Philistines.

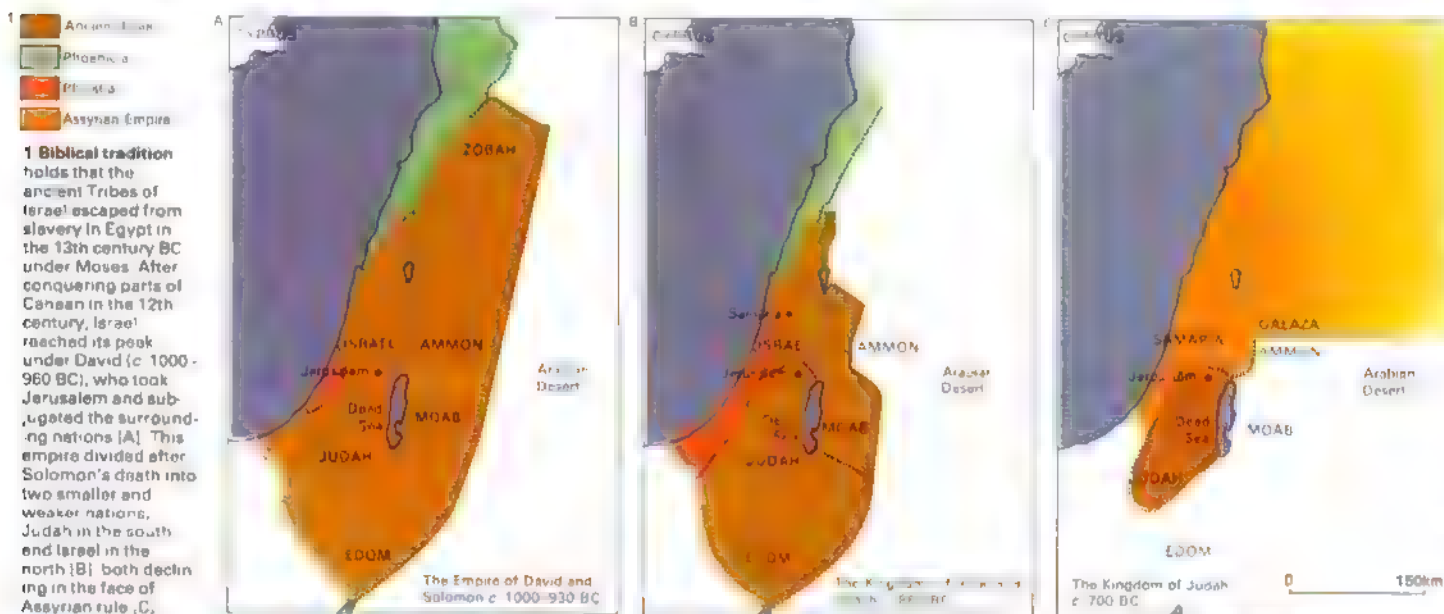
David, Israel's greatest king

David has always been regarded as a great Hebrew, second only to Moses. He was as successful as Saul in uniting the tribes and was an able administrator [1] as well as a poet – many of the Psalms are attributed to him. David captured Jerusalem from the Jebusites and made it his capital. The ark containing the Law, which had lodged in different places since the desert wanderings, was brought to Jerusalem, and when Solomon inherited this united kingdom he built the Temple in Jerusalem [2, 4, 5] for the ark and a larger palace for himself, financing both by taxation and using forced labour to construct them.

Discontent boiled over after Solomon's

CONNECTIONS

See also



2 The Dome of the Rock, a Muslim shrine on the spot where Mohammed is

believed to have risen to heaven, is on Mount Zion, the site of the Temple of Jerusalem

The Walling Wall (the western wall of the second Temple) is a place of worship



3 The Passover, the feast celebrating the deliverance of the Hebrews from captivity in Egypt, used to be introduced by a blast on a ram's horn. This woodcut is taken from a book of Jewish customs

4 A seven-branched candlestick of the type used in the Temple of Jerusalem is shown here on the Arch of Titus in Rome, built after the destruction of Jerusalem by the Romans in AD 70



death and the kingdom was irreparably divided. His weak son Rehoboam managed to hold only the southern country round Jerusalem, in a kingdom that came to be known as Judah (Judaea). His brother, Jeroboam, broke away with ten tribes to form a northern kingdom called Israel, with two rival shrines at Dan and Bethel. The following centuries saw the rivalries of Judah and Israel and the destruction of the northern kingdom by Sargon II of Assyria in 721 [7].

The small kingdom of Judah lingered on in semi-independence for more than a century, until finally it fell in 586 BC and most of its leading figures were taken in captivity to Babylon. The northern tribes of Israel had been scattered and lost (the ten lost tribes) and hence the return from exile after 539 BC was of the leaders of Judah.

The Hebrew prophets and monotheism

More important for world religion than these political events was the work of the Hebrew prophets. They were inspired men who were sometimes associated with, but often critical of, the official religion of their time. One of

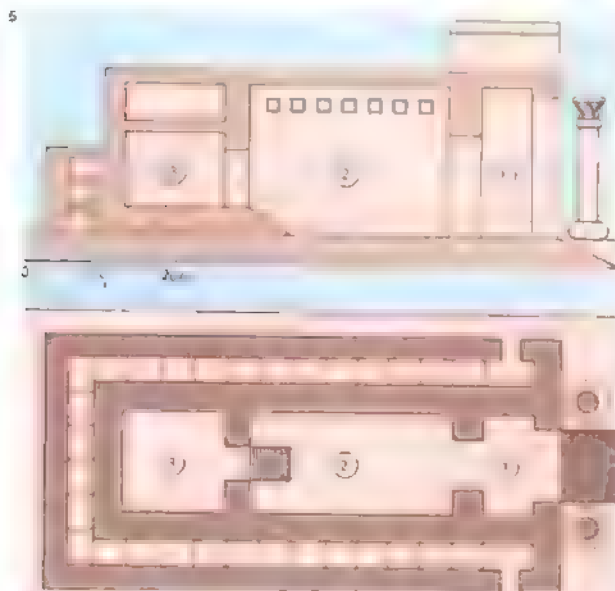
the first, Samuel, was priest, prophet, seer and kingmaker. He chose Saul to be the first king of Israel, and also selected David as Saul's successor. Elijah and his servant and follower Elisha both denounced the prophets of Baal and as a result were honoured by the ruling monarchs of their time.

They were followed by a number of other prophets between the eighth and third centuries, whose messages were soon written down. Amos and Hosea preached at Bethel and in Israel, and Micah and Isaiah [6] in Judah. These men declared the unity of God and His demands of just behaviour from the people, a teaching that is termed "ethical monotheism". Through prophetic influence Deuteronomy, a "second law", was promulgated in Judah in 621 BC by King Josiah, who put down rival shrines and concentrated worship at Jerusalem. Jeremiah preached in Jerusalem before its fall in 586 BC and then went to Egypt, while Ezekiel went to Babylon. The latter denounced heathenism and planned the rebuilding of the Temple, whereas Jeremiah taught a more inward religion of a new covenant with God.

KEY

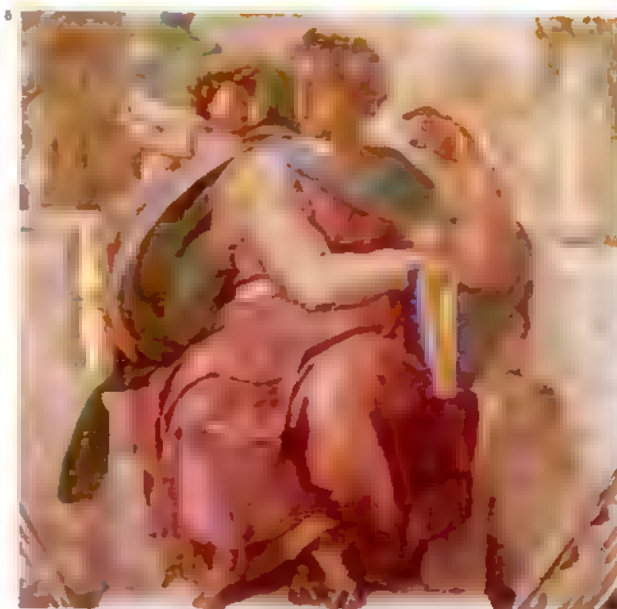


The Torah (an 18th-century copy is shown here) contains the five books of the Law given by God to Moses on Mount Sinai.



5 The first Temple of Jerusalem built by Solomon, of which nothing remains today, was a shrine for the ark, sacred vessels and offerings, with a courtyard for worshippers. It consisted essentially of a hall [1], shrine [2] and inner sanctuary [3], or Holy of Holies, where only the high priest was admitted.

6 In Hebrew history a number of prophets arose who commented on society and rebuked the insincere practice of religion. Like Isaiah depicted here by Michelangelo, the prophets taught belief in one God who was just and merciful and required similar qualities from His followers.



7 Evidence for the relations of the Hebrews with more powerful neighbours appears in a Mesopotamian relief showing the King of Israel, Jehu, paying tribute on his knees to Shalmaneser III, King of Assyria, about 840 BC. Israel was conquered by the Assyrians in 721 BC and the southern kingdom of Judah eventually fell in 586 BC.

8 A Canaanite captive being led before Pharaoh was depicted in a temple of Ramesses III in Egypt. The Canaanites resembled the Hebrews in appearance, since both were Semites and had fine noses, long hair and beards. They were finally conquered by the Israelites about 1200 BC.



The Persian Empire of the Achaemenids

The Persian Empire, during the period of its height, between 550 BC and 480 BC, was the greatest in area and accomplishment the world had then known. Centred on an area comprising much of present-day Iran and Afghanistan it contained 40 million people and gave them common law, systems of coinage, postage and irrigation and a magnificent network of roads [1], as well as a liberal and unifying religion. Although the power of the Achaemenid dynasty was broken by Alexander the Great in 330 BC, Persian influence revived under the Parthian and Sassanid empires and gave way to the Muslim Arab Empire only in the AD 600s.

Persia's early history

Persia is the natural bridge between Europe and Asia. Its history dates back to 6000 BC and the country contains some 250,000 archaeological sites [2], a thousand in the plain before Persepolis [5] alone. In about 1500 BC nomadic Aryans from the north arrived, giving the country the name Iran or 'Land of the Aryans'. In 549 BC their descendants, the Medes, were united with the

Persians in the south by Cyrus the Great who thus founded the Persian Empire, calling it the Achaemenid Empire after an ancestor.

Cyrus [Key] based his empire not merely on territorial conquest but also on international tolerance and understanding. The rights and religions of all the subject states were upheld and their laws and customs respected. After his victory in Babylon in 539 BC, which ended the Jewish captivity, he ordered the temple in Jerusalem to be rebuilt and more than 40,000 Jews left Babylon and returned to Palestine. His army added the former realms of Assyria, Lydia and Asia Minor to the Persian Empire, making it the largest political organization of pre-Roman antiquity. The conquests of Cyrus had been carried as far as the Mediterranean in the west and the Hindu Kush in the east when he was slain in battle in 529 BC.

Cyrus was followed by his son Cambyses II (ruled 529-522 BC), who had none of his father's virtues but inherited his occasional vice of cruelty. Cambyses II began his reign by putting to death his brother Smerdis and then, lured by the wealth of Egypt, set out to

capture that country. Some 50,000 of his soldiers perished in the campaign and Cambyses unsuccessfully tried to put down the Egyptian religion. In a final outburst he killed his sister and wife Roxana, slew his son Prexaspes and buried 12 of his nobles alive. He died during his return journey to Persia.

The reign of Darius

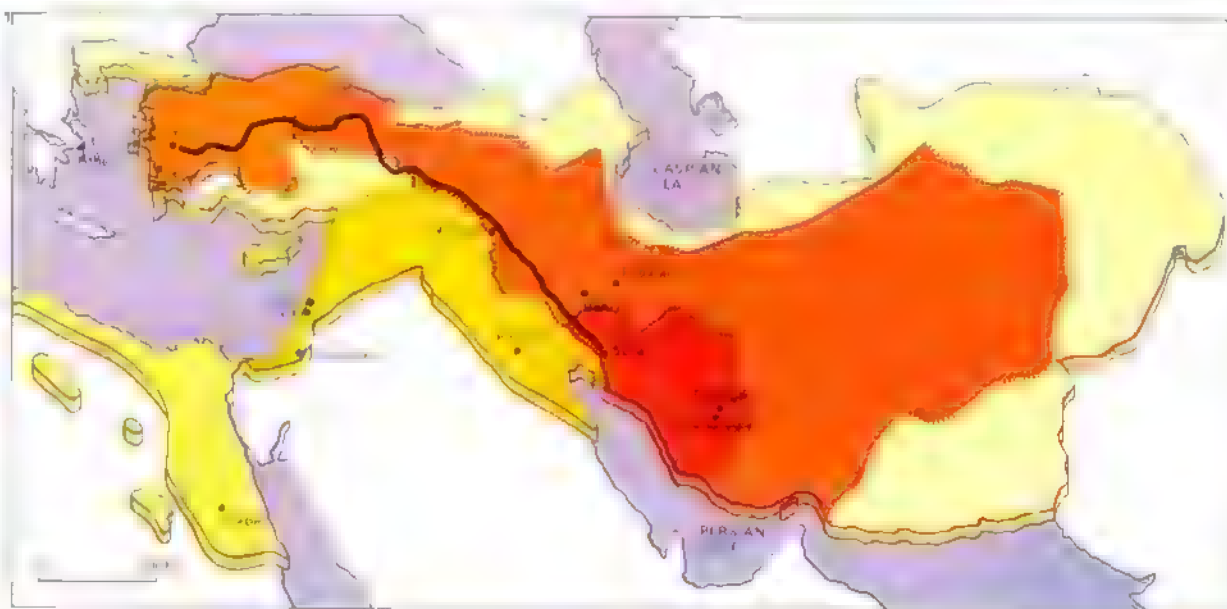
Darius the Great (548-486 BC), who won a battle for the succession, had been the commander of the Ten Thousand Immortals, the elite of the Persian forces [7, 8]. His succession was marked by revolts among the conquered states, which he rapidly quelled. In Babylon 3,000 leading citizens were crucified. Realizing how vulnerable the vast empire was to any crisis he reduced military control in favour of wise administration and re-established his realms in a way that became a model of imperial organization. The result was a generation of order and prosperity. Having gained peace and stability at home Darius led his armies first across the Bosphorus and the Danube to the Volga, then into the valley of the Indus. The Persian

CONNECTIONS

See also

1 The Persian Empire in the Achaemenid period was administered through satrapies. To maintain contact with these provinces Darius created roads whose combined length was 27,000 km (16,800 miles). At 111 staging posts fresh horses awaited the king's envoys, who could thus traverse the whole system in a week. It took merchant caravans 90 days.

- Kingdom of Persia
- Median Empire annexed 549 BC
- Lydian Empire annexed 546 BC
- Chaldean Empire annexed 538 BC
- Egyptian Empire annexed 525 BC
- Later conquests to 479 BC
- Royal Highway



2 The crushed bowl of Hasanlu, exquisitely made in gold, shows a weather god in a chariot drawn by a bull, and a battle with a monster. It was found in 1958 during excavations of the citadel of Hasanlu at the northern end of the

Solduz valley and was clutched in the hands of a man's skeleton. He was probably trying to escape from a palace that collapsed in flames when the citadel was attacked in 800 BC. The bowl is now in the Tehran Museum Treasury Room.



3 Underground water tunnels, called qanats, first introduced to Persia in Achaemenid times, carry mountain water across miles of desert safe from evaporation that would deplete surface canals. A one-man windlass is used to reach the tunnels through shafts sunk at intervals of some 10m (30ft). A digger must work alone in a tunnel only 40 by 60cm (2 by 3ft) in height and width, keeping the channel straight and accurately gauging the amount of fall needed to enable the water to flow steadily to its point of use. These unique water systems contributed as much to the progress of the Persian Empire as the wisdom of its rulers.



4 A coin of Xerxes I depicts him in an aggressive pose, but he is best known for leading the Persian forces to defeat at the hands of the Greeks at the Battle of Salamis. Xerxes inherited the empire from his father, Darius I, in 486

BC. In 484 he suppressed a usurper in Egypt in savage fashion and went on to quell a revolt in Babylonia with similar ruthlessness. After early successes in Greece he lost his fleet at Salamis; the Achaemenid decline dates from that point.

Empire had by that time achieved its greatest extent and influence

Agriculture based on both grain and livestock was the mainstay of the country. Artificial irrigation was introduced by means of tunnels [3] many miles long

The original religion of the country had been the worship of Mithras, identified with the sun, and of Anahita, goddess of water and fertility. This religion was later combined with the worship of a supreme being, Ahura Mazda [9], "the Wise Lord" of the sixth-century prophet Zoroaster, or Zarathustra. As creator and ruler of the world Ahura Mazda clothed himself with the firmament, the sun and moon were his eyes and all forms of nature were his earth, fire [6], wind and water. To avoid polluting these natural elements Parsae (who still follow Zoroastrian beliefs in India) expose their dead on "towers of silence" to be devoured by vultures

The invasion of Greece

Persia's monarchical form of government was supported by her people who believed that the sovereignty of individuals was best

maintained by an individual sovereign, the "King of Kings". On the other hand the city state of Athens propounded the idea of democracy, except for slaves and non-citizens. Darius considered the Greek city states and their colonies a danger, and when Ionia revolted and received aid from Sparta and Athens, he crossed the Aegean but was defeated by an Athenian force at Marathon. In the midst of preparations for another attack upon Greece he died in 486 BC

Xerxes (c. 519-465 BC), son of Darius, crossed the Hellespont with a vast army and defeated the Spartans at Thermopylae. But he was driven out of Europe in 479 BC after incurring the lasting hatred of the Greeks by burning the Acropolis at Athens. The Achaemenid Empire then declined until Alexander the Great (356-323 BC) from Macedonia defeated the last of the dynasty, Darius III, at the Battle of Arbela (also called the Battle of Gaugamela) in 331 BC. He routed a huge Persian army and burnt Persepolis, possibly to avenge the destruction of the Acropolis. Thereafter, Persia formed part of the empire of Alexander

KEY

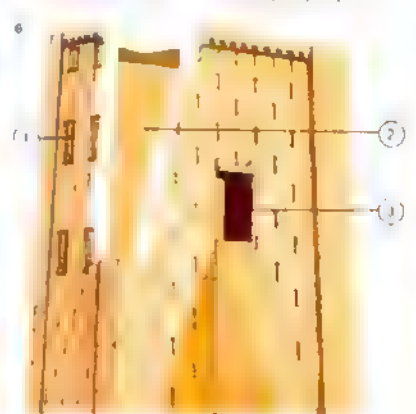


The tomb of Cyrus the Great at Pasargadae commemorates an outstanding leader who united the Medes

and Persians to form an empire that played an important intermediary role between the civiliz-

ations of East and West. Few kings have left such a reputation for tolerance to subject peoples

5 The Palace of Persepolis was begun in 518 BC by Darius and was built mainly under Xerxes I in 485-485 BC. It owes much to its situation with its back to the mountain from which the great terrace was partly carved. The magnificent staircases leading to the terrace were wide enough for eight horsemen to ride abreast up the shallow steps. A procession of Immortals carved in stone decorates the sides of the staircases, followed by lines of courtiers - Medes and Persians - and subject peoples bearing tribute. Iron clamps filled with molten lead lock together some of the blocks of stone of which the terrace is built



6 The so-called Fire Temple at Naqsh-e Rostam near Persepolis stands in front of a cliff in which the four tombs of Darius and his successors are carved. It is about 11 m (36 ft) high with

blind windows [1] of black limestone and a door [3] leading to an empty room [2]. Some authorities believe it to be a Zoroastrian temple for the sacred flame or for holding religious objects



7 Persian warriors owed much of their success to their skill with bows. The arrows were carried in a quiver by the bowman [A] who wore leather shoes and cap and bore a short sword. A bodyguard of Darius the Great [B] wore long robes

and carried a long spear with a cut out shield. Such men, known as the Ten Thousand Immortals were commanded by Darius during the campaign against Egypt and were the mainstay of his military achievements as emperor



8 Depicted in colour on enamelled brick work from the palace of Susa, one of the two capitals of the empire of Darius, is a soldier of the Ten Thousand Immortals holding a spear and carrying his bow and quiver. Darius rewarded his loyal bodyguard by having them portrayed on the walls of each palace he built

9 Artaxerxes I (reigned 465-425 BC), a king of the Achaemenid dynasty, is enthroned in the Hall of a Hundred Columns at Persepolis beneath the winged Ahura Mazda, supreme god in the religion of Zoroaster, who was believed to direct the actions of the king as his vice roy, protecting the earth and its ruler



India 500 BC — AD 300

The age of Buddha (c. 561–c. 483 BC) [3, 4] marked the beginning of a world religion and of important developments in the political and socio-economic fields. It was an age in which different religions (such as Jainism) emerged and a period of change in which established values were questioned.

Trade and political change

In the political field large and expansionist states developed, four of which dominated the scene by 500 BC. The most powerful of these was Magadha in southern Bihar with its capital originally at Rajgir, later at Pataliputra (Patna). The main economic asset was iron but power was also due to energetic rulers who gradually eliminated their rivals by force and diplomacy.

Cottage industries, such as textiles, pottery and metalcraft, flourished and were organized in guilds. Their produce, as well as agricultural surplus, was traded between various north Indian centres and with the Achaemenid (Persian) Empire in the west. Most trade was financed by bankers who supplied the means of transportation and took

the risks. Such activities favoured the rise of a prosperous class that included many who felt dissatisfied with the then rigid divisions of Hindu society. Such people often became enthusiastic patrons of Buddhism and other non-Hindu religions.

These developments were temporarily disturbed by the invasion in 327 BC of Alexander the Great (356–323 BC) who, after conquering the Persian Empire, set out to occupy its Indian provinces. But attracted by the legendary wealth of India, he advanced farther and managed to penetrate the Punjab. Alexander was, however, forced to retreat, soon to be followed by the governors whom he had appointed to rule the territories after his departure [5].

The glorious Mauryan age

The retreat of Alexander left behind a strong sense of Indian unity which found a leader in the young warrior Chandragupta (c. 321–c. 297 BC). First he liberated the western provinces and then he marched against Pataliputra, where he defeated the Nanda king of Magadha and so founded the Mau-

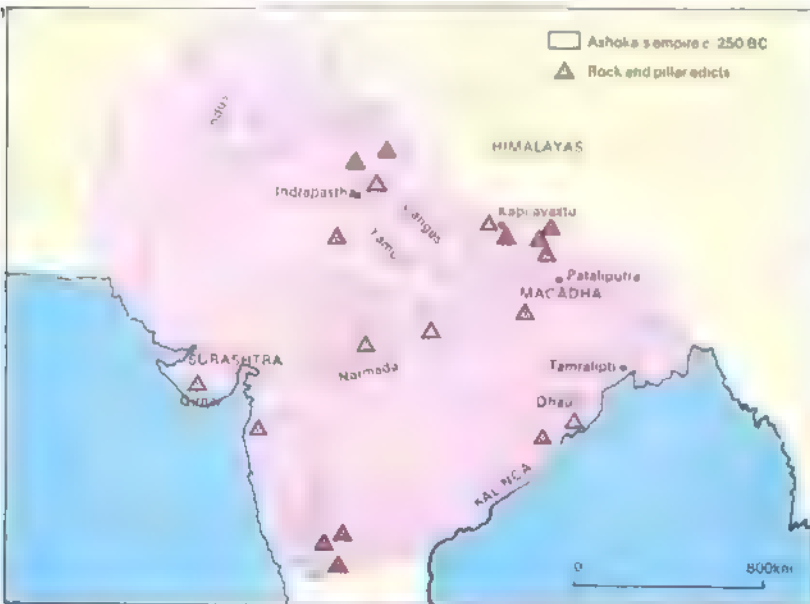
ryan Dynasty in 320 BC. In his bid for the throne, Chandragupta was assisted by his able and cunning minister Kautilya, who is regarded as the author of the most important Indian work on statecraft, the *Arthashastra*.

The Mauryan age (320–185 BC) was one of the most glorious periods of Indian history. Chandragupta controlled northern India from the Hindu Kush to Bengal and probably parts of southern India as well. The kingdom was largely centralized, partly because of a network of highways. In 305 BC Chandragupta concluded a treaty with the Greek Seleucus (c. 355–281 BC) who sent Megasthenes (c. 350–c. 290 BC) to the Indian court as an envoy to grant Chandragupta formal rights over Alexander's conquests in India.

The Mauryan Empire [1] reached its zenith under Chandragupta's grandson Ashoka (c. 274–c. 236 BC), the mightiest king of ancient India. At first Ashoka continued to follow traditional expansionist policies but, after a cruel campaign against Kahnga (the present state of Orissa), he renounced further conquests by force. Instead he substituted conquest by righteous-

CONNECTIONS

Chandragupta's reign is the subject of the *Arthashastra*, the *Maurya* and *Mauryan* and *Mauryan*.



1 The Mauryan Empire was the greatest of the states of ancient India. It comprised most of the subcontinent, except its southernmost portion, and most of Bengal and Sind. It also in-

cluded significant parts of present Afghanistan, thus controlling the all important overland communications with the Middle East. The size can be accurately established on the basis of the

sites of the Ashokan rock and pillar edicts. Centralized administration of this vast empire was simplified by a network of highways connecting Pataliputra with the provincial centres.



2 The rich sculpture of the eastern gateway of the great stupa at Sanchi shows both pious Buddhist stories and local deities belonging to folk

religion but tolerated by Buddhism. The Buddhist stories concern either the important events in the life of Lord Buddha or stories

relating to his earlier existences as a man or an animal. Popular religion is represented by various deities such as yakshas (tree spirits).



3 The Buddha is said to have converted people by performing miracles such as walking on the water depicted here [A] in the carvings on the gate way at the Sanchi stupa. The presence of Lord Buddha, who is not represented

in this early period, must be inferred. Another scene [B] shows Buddha's father paying homage to the tree under which Lord Buddha attained enlightenment. This time the presence of the Buddha has to be inferred from the tree.



4 The great stupa (dome-shaped shrine) at Sanchi was built in Ashoka's time but the railings and the richly sculptured gateways were added during the following two centuries. Sanchi, situated at the centre of India where the main

highways from east to west and from north to south crossed, was one of the principal Buddhist centres from at least the time of Ashoka to the 10th century AD. It also gave its name to a school of sculpture.



ness. At about that time Ashoka was converted to Buddhism and became one of its most fervent supporters.

To propagate his ideas Ashoka had edicts engraved on rocks and pillars [Key]. These edicts enjoined upon the population a common ideology based on the concept of loyalty towards one's elders and those in authority and also on justice and mercy for one's neighbours.

The Indo-Greeks and the Kushan Dynasty

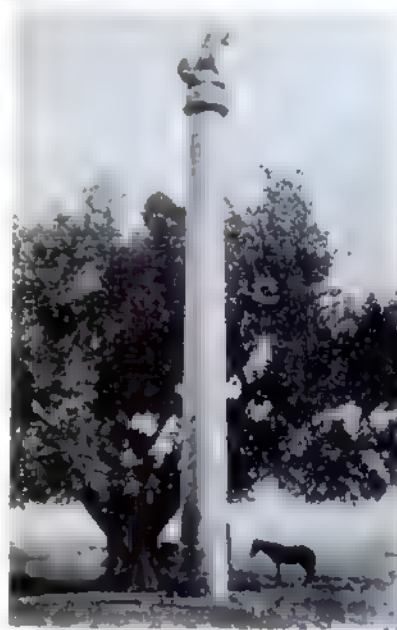
The Mauryan Dynasty continued to rule over vast areas of India until 50 years after Ashoka's death but its authority soon declined. By about 185 BC the army commander Pushyamitra, in one of the earliest recorded military coups, overthrew the last Mauryan king and founded the Sunga Dynasty. The centre of the state was soon moved from Bihar to central India. Pushyamitra was a powerful ruler but his successors could not prevent incursions by the Bactrian Greeks, descendants of some of Alexander's generals. Some were repulsed by the Indians, while others founded short-

lived kingdoms in the Punjab and elsewhere. Many of these were influenced by Indian culture and because of this they are usually called Indo-Greeks.

The Indo-Greeks were soon followed by invaders from central Asia and in AD 78 most of northern India was under the control of Kanishka (died c. AD 100) [6] of the Kushan Dynasty of Scythian origin (from central Asia). Like other Scythians, Kanishka was a pious Buddhist.

A century later, however, the Kushans had been expelled from India and a Hindu reaction followed. Sanskrit, the language of the sacred texts, developed into a medium of communication among the upper class, in administration and, above all, in literature. The great Sanskrit epics, the *Mahabharata* and the *Ramayana*, although incorporating much older tradition, were probably written down during this period, as were the *Laws of Manu*, the basic code of Hinduism. These three texts together incorporate the basic values of Hinduism and so laid the foundations of the classical age of India in the Gupta period (AD 320-550).

KEY



The Ashoka pillars are among the oldest and most splendid monuments of Indian art. They are built of sandstone with a special bright polish and rest on solid foundations below ground level. They are crowned with animal sculptures, this one at Lauriya Nandangarh in northern Bihar has a heraldic lion. Many pillars are also inscribed with Ashoka edicts proclaiming the emperor's authority. This pillar is inscribed with six edicts of the last phase of Ashoka's reign. Earlier scholars have emphasized foreign influences, but recent research has established them in the Indian tradition.

5A



Diodotus



B



Menander



5 After Alexander had left India in 325 BC several of his governors founded small independent principalities in Bactria and northwestern India. Some of these Greeks were strongly influenced by the Indians. For example, the coin [A] of Diodotus (fl. 3rd century BC) compared with the coin of Menander [B] (c. 150 BC) shows Indian influence particularly in the use of an Indian script.

6 Kanishka I, the greatest of the Kushan kings, ruled over vast areas of central Asia and also controlled most of northern India eastwards as far as Bihar. This modern illustration is based on a torso of Kanishka, as indicated by the inscription, to which the head has been added from one of Kanishka's coins. The Scythian mantle and boots convey a strong impression of power and authority.

6



7 According to Buddhist tradition, caves have been used by the community of Buddhist monks since early times, especially as shelters during the rainy season. Although they were gradually replaced by structural monasteries, the

tradition was continued in parts of India where numerous caves were excavated between 100 BC and AD 900. The *Chaitya* cave at Karli, Maharashtra (c. 50 BC) was not used as a dwelling but as a place of worship as well as for monastic ceremonies. It consists of a long pillared hall with a small stupa enshrining relics of Lord Buddha at the end. The rich sculpture of the capitals of the pillars presents a striking contrast to the sober lines of the rest of the cave.

monies. It consists of a long pillared hall with a small stupa enshrining relics of Lord Buddha at the end. The rich sculpture of the capitals of the pillars presents a striking contrast to the sober lines of the rest of the cave.

8



8 Another richly decorated part of the caves at Karli, Maharashtra, is the facade, which includes the space between the three entrances. In addition to traditional Buddhist scenes, there are usually representations of the pious donors of the caves and especially of the land which was donated for the requisites of the monks. The donors are usually couples, thus illustrating the high status of women in this period in western India.

Buddha and Buddhism

By the sixth century BC the semi-nomadic tribes of northern India had developed into settled agricultural communities ruled by oligarchies or royal dynasties. It was a time of social change and of new ideas. Chief among these, and evolved in opposition to the rituals and hardening caste system of Hinduism, were the philosophical and ethical teachings of Buddhism which were to develop into one of the greatest Oriental religions

The life of Buddha

There are many differing accounts of the life of Buddha but the main outline seems clear. Siddhartha Gautama (c. 563–c. 483 BC), who was later to become the Buddha ("the Enlightened One"), was the son of Sudhodana, king of the Sakyas, and his queen Maya. His birthplace, Lumbini, is situated on the northern fringes of the Gangetic valley near Kapilavastu where he spent his early years. After an uneventful childhood the prince, struck by the problem of human suffering, decided to break with the past to seek the supreme truth in meditation. He left home secretly [1] and eventually, after years

of seclusion, he attained "enlightenment" seated under the Bodhi tree at Bodhgaya near Gaya in southern Bihar [4]. This subsequently became one of the holiest places of Buddhism and saplings of the tree were taken to different Buddhist countries where they grew into new trees. Soon afterwards the Buddha delivered his first sermon in the Deer Park of Sarnath [5] near Varanasi "setting the wheel of the Law in motion" [Key]

Buddhist doctrine was a Middle Way, avoiding the extremes of mortification and indulgence. It accepted the basic concepts of Hinduism – rebirth and the law of karma, that a man's actions directly control his destiny – but concentrated on ethics as a means to salvation. For Buddha suffering was caused by desire. The abandonment of desire could be achieved by following the "noble eightfold path" of right living and actions. As a result nirvana, the state of bliss in which rebirth ended, would be attained. The ideal of nirvana [3] could best be attained by monastic discipline, but the order of monks (Sangha) depended on the entire community.

Buddha himself preached all over eastern

India and received support from the rulers and the emerging merchant class. When at an advanced age he "entered nirvana", he left a monastic order but no written instructions.

CONNECTIONS



Expansion of Buddhism

For two centuries Buddhism slowly expanded despite difficulties such as the animosity of the Hindu Brahmins who feared for their own privileges. However, when the Indian king Ashoka (reigned c. 274–c. 236 BC) was converted to Buddhism his powerful patronage greatly favoured its expansion. The oldest extant stupas, distinctive monuments built to enshrine relics, belong to this period. Through Ashoka's influence Buddhism was introduced into Sri Lanka, where it has remained the established faith.

For the next few centuries Buddhism spread farther into India with centres located in central India (Bharhut, Sanchi), Maharashtra and Andhra Pradesh where Buddhist art and architecture flourished. In Maharashtra (Nasik, Karle and other places), many caves served as monasteries or halls for worship (the *chaitya* halls). Great stupas

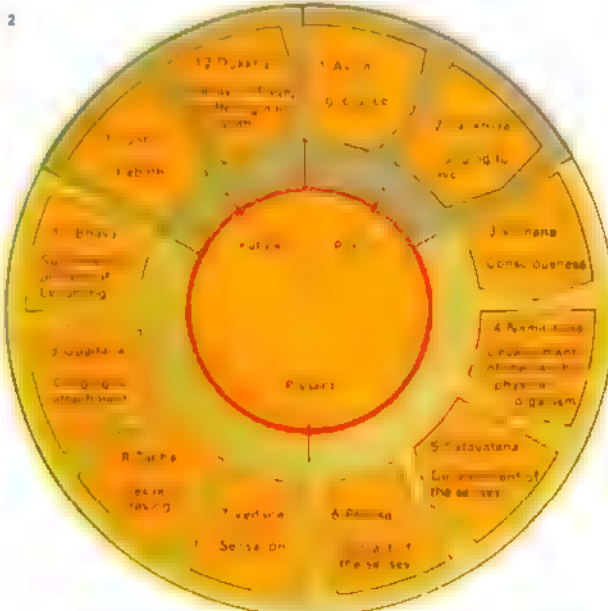


1 The great departure from Kapilavastu is often represented in Buddhist art. Although the

future Buddha left secretly at night sculptors usually show the pomp of a royal procession

2 In Buddhist philosophy the Wheel of Existence consists of 12 spokes, each constituting a link

in the ever-repeated cycle of life and death. The wheel will revolve as long as ignorance lasts



3 The fourth great event in Buddha's life is the nirvana, which is neither eternal life nor annihilation but an incomprehensible state of utter bliss. Here Buddha is shown in a symbolic representation of the state of nirvana. This huge sculpture at Gal Vihara, Polonnaruwa, Sri Lanka, dates from the twelfth century.

4 The Mahabodhi Temple, Bodhgaya, Bihar, marks the spot where Lord Buddha attained "enlightenment" seated under the Bodhi tree. This is perhaps the most hallowed spot in the Buddhist world. The present temple which replaces an older foundation at the site, was built in the Gupta period (c. 320–c. 550) but has been restored.



(Amaravati and Nagarjunakonda) also arose in the Andhra country.

Buddhism was always prone to divisions and councils organized to promote unity often had the opposite effect. Early in the Christian era there developed a fundamental division between the adherents of the Great Vehicle (Mahayana) and those of the Lesser Vehicle (Hinayana). The former had monks but emphasized the ideal of the pious layman continually assisting his fellow men by his wisdom and compassion. The historical Buddha and previous Buddhas were worshipped as deities and so were other beings who had taken the vow to become Buddhas (Bodhisattvas). Buddhas and Bodhisattvas received worship in the form of images, thus providing a strong incentive to Buddhist art which soon included the image of Lord Buddha. Hinayana, however, kept closer to the other teachings.

The spread outside south Asia

From the beginning of the Christian era Buddhism spread outside south Asia [9]. Buddhism entered China in the first century

and subsequently spread to Korea and Japan. In Tibet it took root in the eighth century and developed into Lamaism.

In South-East Asia, too, Mahayana influence, mainly from Bengal, inspired great monuments such as Borobudur in central Java (ninth century) [7] and Ba-yon in Cambodia (twelfth century), but the great expansion of the Theravada school (the monastic version of Hinayana) gained momentum in the eleventh century when the Burmese king Aniruddha (reigned 1044-77) made Theravada the official religion. In the thirteenth century it became the official religion of Thailand and eventually spread to Laos and Cambodia.

Although it has not always guaranteed harmony between these countries, Buddhism has provided Sri Lanka and mainland South-East Asia with a firm ideology and a high standard of education. It has also contributed to great achievements in art and architecture. The astounding temple complex of Pagan (Burma), the splendid pagodas of Mandalay (Bangkok) and Ayuttha (Thailand), testify to the strength and inspiration of the faith.

In the life of Lord Buddha the first sermon is the third great event after his birth and "enlightenment". Buddhists call this event the "turning of the wheel of Law", the wheel representing the cosmos and the Law represents the Lord Buddha's philosophy which offers an explanation of the mysteries of life. The presence of the wheel is suggested by the position of the hands. The sculpture of Sarnath dates from the Gupta period, (c. AD 500). The perfection of the physical shape reflects perfect knowledge, the elongated ears and almond-shaped eyes suggest profound concentration and the monastic robe reveals the perfect body.



5 The Wheel of Law and two deer on this seal suggest the Deer Park of Sarnath. The seal was recovered from the ruins of Nalanda, a great Buddhist monastery in Bihar. Founded in the fifth century,

Nalanda became one of the great centres of Buddhist learning, attracting students even from Indonesia and China and enjoying the patronage of numerous kings. The Muslims largely destroyed it c. 1200.



6 One of the oldest known Buddhist images in South-East Asia is this bronze Buddha from Vietnam, dating back to the fifth century. Its style was influenced by Buddhas from Amaravati.

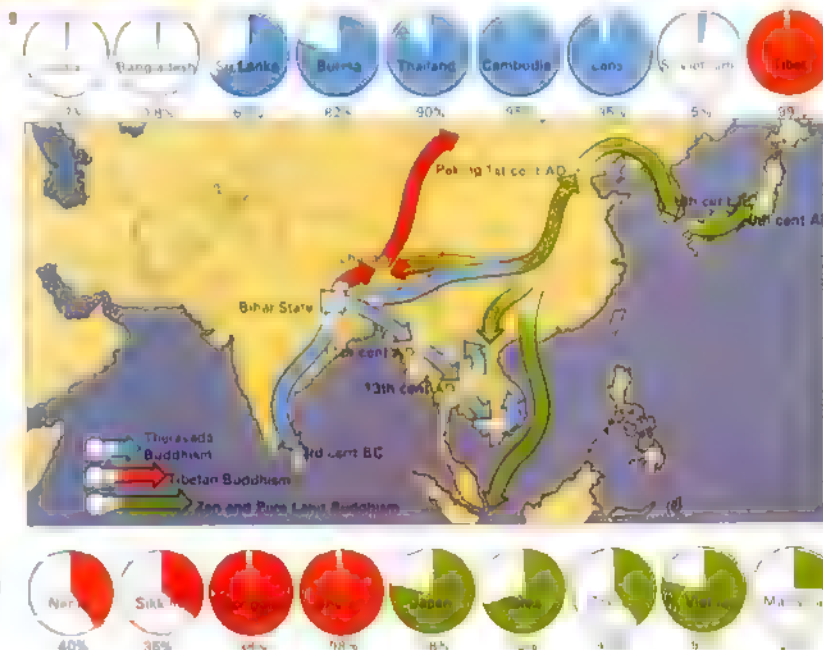
7 Borobudur, situated in the heart of Java, is often described as a stupa (dome-shaped shrine) but although a stupa crowns it, the rest of the structure predominates. It is a marvelous store

house of sculpture with five lavishly decorated galleries exhibiting pious stories in 1,500 relief panels. It was built by the Sailendras, a Buddhist dynasty in Java from about 750 to 850.



8 The Mons of southern Thailand and the Thais of central Thailand became Buddhists by the third century. Despite the Khmer occupation, Buddhism continued to flourish. This Buddha head comes from Lopburi. Although conforming to Buddhist norms, it was modelled to correspond to the aesthetic desires of the Thais.

9 The expansion of Buddhism outside India was a complicated process extending over many centuries. Here the broad outlines of its spread are shown together with the percentage of Buddhists in various countries today. Buddhism was spread by monks who sometimes acted as advisers to kings.



Europe 1200–500 BC

By 1200 BC the Bronze Age was fully mature among the Urnfield peoples, predecessors of the Celts who were by 800-700 BC to become the dominant and most progressive element in European society for several hundred years. The Urnfield peoples lived north of the Alps and belong to the prehistoric phase of European evolution, their name was given to them by archaeologists because they introduced a new burial rite into Europe. Burial in barrows was replaced by cremation, the burnt bones then being placed in an urn and interred in large flat cemeteries or Urnfields.

Technological revolution

With some exceptions - Basques, Finns, Iberians - the Europeans were of Indo-European origin and thus had linguistic and cultural traditions in common. The Urnfield peoples, who were farmers living in villages or large homestead complexes, may have spoken some form of Celtic dialect as the distribution of their monuments corresponds with the oldest recognizable Celtic place-names. These Urnfield peoples are generally

regarded as being "proto-Celtic" and there seems to be little difference between them and their immediate descendants, the Celts of the Hallstatt culture.

The Urnfield period saw not only improved agriculture in Europe but also great developments in metalworking. It was a time of expansion and of warfare, and archaeological evidence shows that the central Europeans possessed quite sophisticated bronze weapons. Towards the end of the period, about 800 BC, Europe experienced a major technological revolution initiated by the Celts. They introduced the use of iron into Europe north of the Alps, and with it all the superiority in weapons and edge tools which the use of iron made possible. The areas of initial development coincide closely with Urnfield settlements in the Danube and Rhine regions.

Apart from evidence of some contact with people from the Steppes, everything suggests a continuity of the indigenous population enriched and empowered by the discovery of iron. This first phase of Celtic culture is known to archaeologists as Hallstatt after a

village in the Salzkammergut in Austria

The Hallstatt site has provided dramatic and comprehensive evidence about the early Iron Age in Europe. The community there derived much of its wealth from large salt mines. Both the preserving and healing powers of salt were recognized at an early stage. But it was also a valuable trading commodity, being perhaps the chief export from the Hallstatt Celts to the Graeco-Etruscan world. Evidence from many sites points to the importance of this trade which passed between the two regions through Greek colonies in the northern Mediterranean. A leading colony was Massilia (Marseille) which was founded about 600 BC.

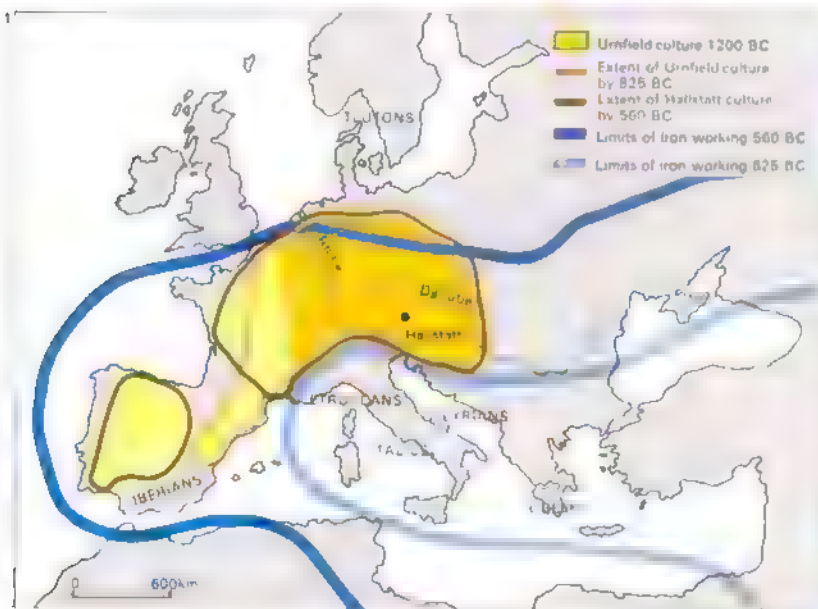
Workers and aristocrats

The equipment, dress, foods and eating habits of workers are all too often unknown in a society solely concerned with its aristocracy, the wealth of which is attested by the richness of the burials. Clothing and leather helmets have been preserved at Hallstatt. Their wooden bowls and other eating utensils have remained intact and numerous seeds

CONNECTIONS

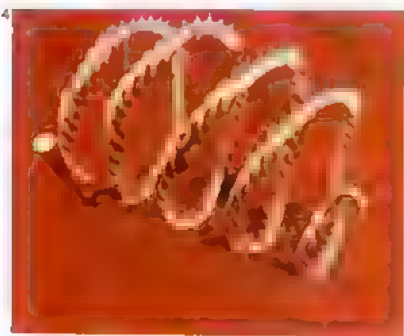
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1 The Urnfield culture developed around the Danube and Rhine and by 825 BC had reached Spain. The Halstatt culture, which began in the same place and superseded the Urnfield by 560 BC covered

most of Spain and Portugal. By then iron working, introduced from the east, had spread through most of Europe. The Hallstatt culture is named after a key archaeological site in Austria.



4 A gold arm-band from Dover of about 1000 BC anticipates Celtic work

5 Irish goldsmiths
made this gold
plated lead pendant
about 800 BC



6 Later Celtic sym-
metry is seen in a
gold-plated Irish ring
of about 1000 BC



2 In Irish tradition
This stone with its
spiral designs marked

An entrance to the 'otherworld'. It dates from c. 2500 BC for a-

shadowing Celtic designs of some 2 000 years later.



**3 Hallsatt ceramic
skill and restrained
decorative elegance
are shown in this**

painted pottery urn
 from Buranhof, Ger-
 many, dating from
 about 820 BC



and fruit stones provide some indication of their typical diet

Information about the aristocrats comes from a vast cemetery which points to great changes in burial customs and personal equipment coinciding with the development of a culture based on iron, a more abundant metal and cheaper for practical purposes than bronze. Chieftains were no longer cremated and placed in humble urns but were buried with much pomp

Burial ceremony

The richest graves consisted of a wooden chamber, usually of oak and covered by a mound decorated by a commemorative stone figure [Key], sacred tree, or stone pillar. The deceased was placed under his status symbol, a four-wheeled wagon. Horse trappings were present, but there seems to be no evidence for the burial of the horses themselves, perhaps they were sacrificed to the gods and ritually eaten, or burnt. All the warrior's fine military equipment was placed in the tomb with him - his sword and spear, helmet, neck and arm ornaments and other things he had

valued. Pots no doubt full of ale or imported wine for the "other world" feast, and joints of meat were laid beside him to sustain him on his journey. According to the Old Irish tales, once the actual burial rite was completed, the ceremony would be followed by feasting and funerary games.

The Hallstatt period lasted until about 500 BC and laid the foundations for the full flowering of Celtic culture in Europe at that time. There was some intermarriage with the Teutonic peoples to the north - both Teuton and German are Celtic names - and the Celts were probably overlords, making up the aristocracy of these closely related peoples. The Hallstatt phase of the Celts manifested itself deep into Spain. Hallstatt art [3, 7, 8, 9] tended to be linear, influenced by Greek Geometric, the naturalism of Urnfield bird and animal art, and old indigenous motifs, magical and symbolic. It was to become an important element in the magnificent magico-religious art [11] of the La Tène period that followed, and in the important contribution of Irish art [4, 5, 6, 10] to the Western Church in early Christian times.

This stone statue of a Hallstatt warrior or divinized hero, dates from the end of the 6th century BC. The figure was found on a Hirslanden burial mound, broken where it had fallen. The cult of graves and ancestors was strong among the Celts and this anthropomorphic figure links the prehistoric world with that of the historical Celtic world in all its flourishing vigour. In this sense it epitomizes all that had gone before and anticipates the strength of Celtic culture in its later phase. The Hallstatt peoples had close trade links with the Etruscans, another important bronze-using culture.



7 Warfare, whether as necessity or as an aristocratic sport, dominated most aspects of Celtic culture. Emphasis was laid not only on efficient weapons but also on the appearance of the warriors.

Although not usually worn into battle, helmets were popular headgear. This bronze helmet from Italy probably dates from the Hallstatt period and is a particularly fine example of Celtic work.



8 A Greek bronze crater for mixing wine, weighing 208kg (460lb), was found in the burial of the priestess at Vix. It shows that as early as the 6th century BC the Celtic and Mediterranean worlds were in close contact. This may have been a gift of peace, friendship or trade.

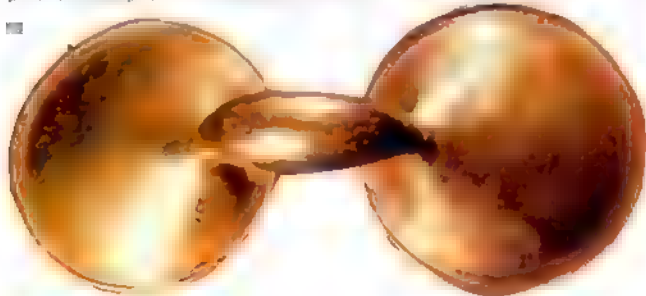
9 The Celts were skilled metalworkers. They introduced iron into northern Europe by 800 BC but continued to use bronze with exquisite results. This detail of a bronze bowl handle from the 6th century gives some indication of the sophisticated craftsmanship of the Hallstatt culture.



10 This gold dress-fastener from County Galway (Castlekelly) in Ireland dates from about 700 BC and measures 28cm (11in) across. Such objects not only provide proof of Celtic pride

in personal ornamentation but also reveal the exquisite skill and harmony of Celtic craftsmen and their predecessors in their use of various metals as a medium of their art.

11 The severed head - the true godhead - with one, two or three faces was the supreme object of Celtic worship. This Janus head from a sanctuary in France about 250 BC looks back and also forward, possibly to the "otherworld."



A Tibetan painting
 of a Buddhist
 deity, seated
 on a lotus
 throne, surrounded
 by a dense
 forest of
 colorful flowers
 and foliage.



A silver relief of
Amazons on
horseback eating
fruit, the 6th century
BC. This is a fine
example of the
quality of Greek
metalwork before the
rise of Athens.



The Greeks to the rise of Athens

Some time about 1200 BC Greek civilization underwent a major change. Dorian tribes moved through the peninsula from the north and settled, mainly in the Peloponnese. The existing peoples were assimilated or confined into smaller areas, and Ionians and Aeolians in particular were pushed out across the sea to found cities in Asia Minor.

The development of institutions

Major social changes must have accompanied this upheaval, but little detail is known of the next 400 years, much of what we do know comes from the two epic poems by Homer, the *Iliad* and the *Odyssey*. It is, however, possible to identify several important developments that were of major significance for subsequent Greek civilization. The use of iron became widespread for tools and weapons [2]; a phonetic alphabet was developed and more or less standardized and a feeling of national consciousness arose – a racial and intellectual identity bound up in the use of the word *Hellas* to describe the whole Greek world. At the same time a pantheon of gods that appear in Homer's

poems was formed, religious ceremonies developed and the importance of shrines such as Delphi became generally accepted and the city state was adopted as the most important political, economic and social unit.

The rugged geography of Greece played a major part in making the inhabitants of each valley regard themselves as a separate entity and Greece became a patchwork of small states each of which guarded its independence jealously [3]. They varied greatly in size. Athens succeeded in subduing Attica and no other states developed there, while Thebes had a series of victories over Boeotia and at least 12 states existed there. Writing in the fourth century BC Aristotle mentions the existence of at least 150 states.

The size of the city state was important for Greek political development because a firm belief developed that a satisfactory political unit must be small and totally independent. A Greek had a series of loyalties to *Hellas*, to his city state and to his tribe within the state, but loyalty to the city was the most powerful and the idea of a larger political unit was never developed. During this period the

Greeks also evolved the belief that government must be based on a known constitutional and legal framework.

Agriculture, trade and politics

Economically, agriculture was all-important [Key] and as the cities developed, the link between them and the country remained strong. However some states became increasingly involved in trade and industry [6] and a definite class of traders and craftsmen evolved. Politically, by the mid-seventh century BC most states had moved away from the monarchies described by Homer and were ruled by oligarchies of the richest and most powerful citizens. A privileged or noble class held all political, military and religious power and there was usually tension between them and the common people.

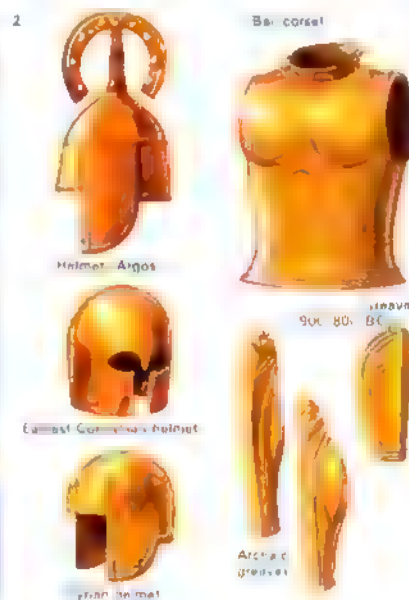
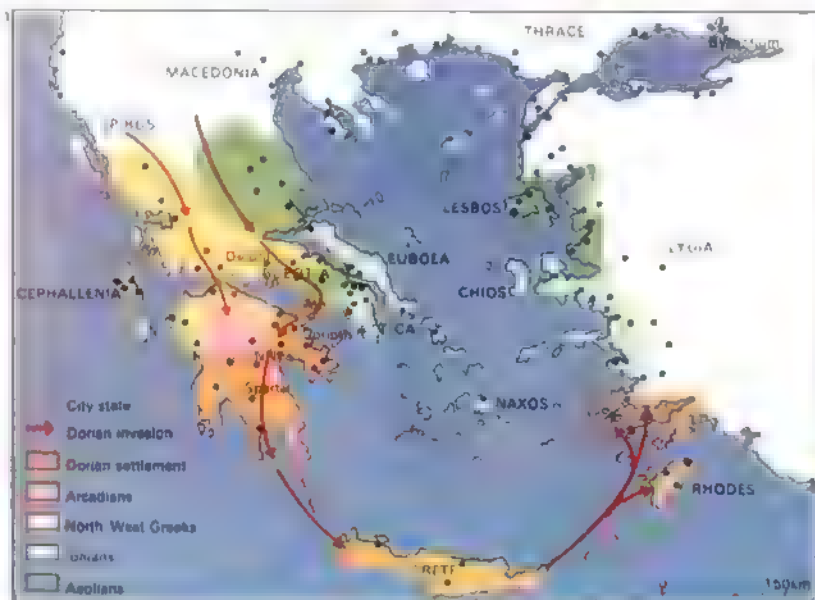
This tension was made worse by increasing population and a safety valve was found in colonization [4]. States organized expeditions to found new cities overseas, but once founded these new cities were completely independent of, although they

CONNECTIONS

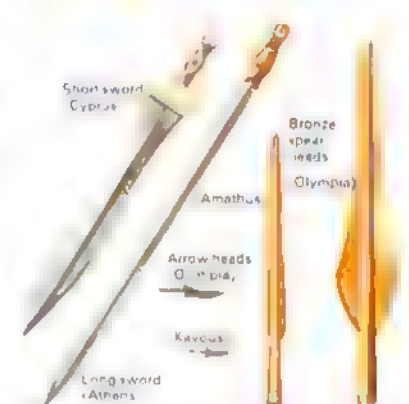
See also
The Greek myths



1 Little is known of the history of Greece between the arrival of the Dorians (c. 1200 BC) and the dawn of the Archaic period (c. 800 BC). Homer describes a society of small agricultural communities grouped round citadels and led by kings and aristocrats, but it retained many of the features of Mycenaean civilization and had little trade or commerce. By the time of Hesiod (8th century BC), whose narrative poems give a description of the early Archaic period, trade and commerce were increasing, monarchy had generally been replaced by oligarchy and the city was becoming the focus of political life.



3 The landscape of Greece, with its limited fertile plains and high mountains, became a significant factor in the rise of small communities such as Corinth (shown here). Travel was difficult and economic and political life tended to be concentrated in confined areas. The Greeks were convinced that these small independent units were the most natural size for a satisfactory political life. This attitude combined with constant diplomatic and military maneuvering between states meant that wider unity was never attempted, although the idea of a distinct Greek identity and a feeling of cultural superiority to outsiders did exist.



2 Bronze arms and armor were used by the aristocratic warriors of Homer's poems, who fought in individual combat. But iron began to supersede bronze before 700 BC and tactics changed fundamentally with heavily armed infantry (hop-

lites) fighting in a well-disciplined mass formation – the phalanx. Many hoplites came from outside the aristocracy (although they had to be wealthy enough to provide their own equipment) and this helped to weaken the old social order.

retained close links with their mother cities. From about 750 BC migration established Greek cities throughout the Mediterranean.

Colonization did not solve the problem of class struggle and the archaic Greek world (Greece between 800 and 500 BC) saw the widespread appearance of tyrants, a word originally applied by the Greeks to men who seized power unconstitutionally and ruled either well or badly – without legal backing.

New political systems

In Athens attempts were made by Solon (c. 640–c. 559 BC) to remove the economic problems that lay at the root of the class struggle and reform the legal framework of the state to protect the weak. Power was seized in 545 by Pisistratus (c. 600–527 BC) who increased the rights of the common people and brought the nobility under the rule of law. These developments formalized the democratic system that ruled Athens for the next two centuries.

The same pattern was followed in other states: tyrants rarely lasted long. Some states such as Sparta with its peculiar constitution

and Corinth with a strong oligarchy avoided the tyrannical stage completely.

Until the middle of the sixth century BC the Greeks were largely unaffected by outsiders, apart from trading contacts. The situation altered when the Lydians extended their power over the Greek states of Asia Minor and were succeeded in 546 by the Persians. Neither overlordship was oppressive, but in 499 the Greeks rose in revolt and succeeded in temporarily reasserting their independence. There was, however, little unity among them or support from the main land, and in 494 the Persian emperor Darius was able to crush the revolt. He followed this up by reimposing his power in Thrace and Macedonia and then in 490 launching a major invasion of Greece.

Athens, as the largest state, was his immediate target and she called for help from the others, but before this could arrive her troops, who were significantly outnumbered, met and decisively defeated the Persians at Marathon. Darius' army withdrew, leaving the Greeks still disunited but convinced of their superiority over the "barbarians".

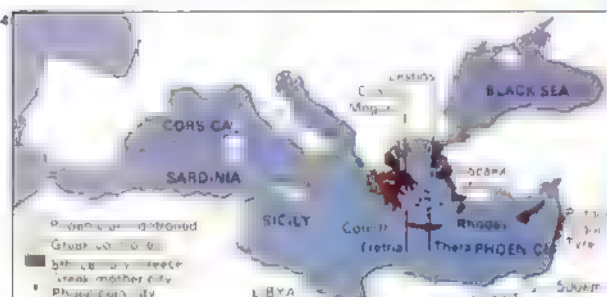


Greek agriculture represented by the olive harvest shown on this 6th century BC amphora. As a wayside faced with the difficulty of providing sufficient food from the relatively small area of fertile land. The increasing dependence of a expanding population on food was a major factor in the growth of emigration. The Greek world was then throughout the Mediterranean. But overpopulation was only part of the reason for emigration. The lack of arable land, the result of overpopulation, meant that the distribution of agricultural land was by no means equitable. The resulting social tensions naturally encouraged the tendency to emigrate.

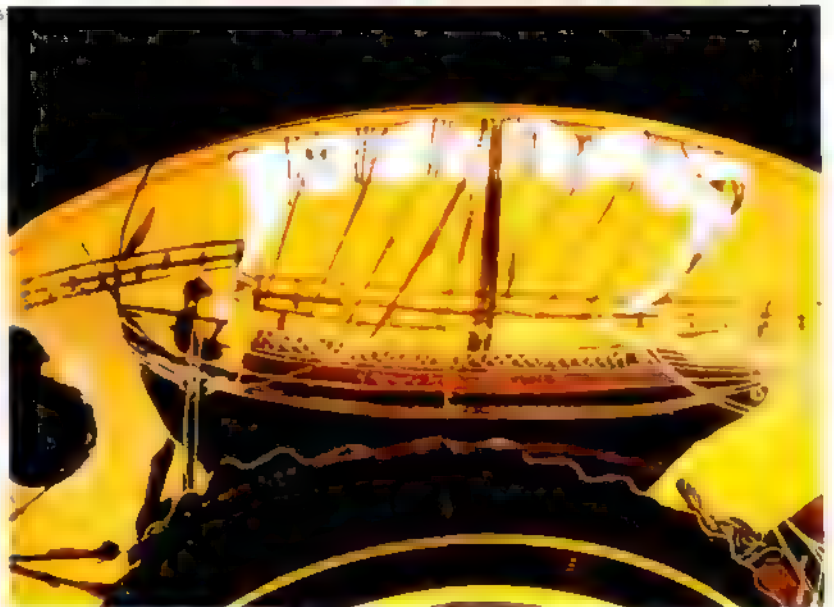
4 Colonization was used to send surplus and disaffected populations to found cities in new regions. The first phase began about 750 BC with expeditions to the west, where the Greeks found the Phoenicians already well established in many areas. They were able to settle in Sicily,

southern Italy, France and Libya. About 650 BC the Greeks began to move into the Black Sea region until there were colonies round almost all its shores. By the 6th century BC the colonies were sending enough food back to Greece to feed the expanding population and thus reduce emigration.

5 The Greeks traded with the Phoenicians, the Egyptians and the people of the Middle East as well as between colonies and mother cities. In states bordering the sea, such as Athens and Corinth, trade became an important source of wealth. Shipbuilding and navigation were there for vital skills.



6 Trade and commerce were free to develop, such as this one on an Attic shape of weapons or as pieces valued by



Classical Greece

In 480 BC the Persians under Xerxes launched a second invasion of Greece. A large army advanced across the Hellespont and down the peninsula, it was briefly halted by the heroism of 300 Spartans under their king Leonidas, who held the narrow pass at Thermopylae until outflanked. They fought to the last man. Athens was occupied but shortly afterwards its fleet, led by the statesman Themistocles (c. 528–c. 460 BC), annihilated the Persian force at Salamis [1]. Xerxes' army fell back northwards and in 479 BC it was defeated at Plataea by a largely Peloponnesian army under the Spartan Pausanias. If the Greeks had not defeated the Persians, the history of Europe might have been very different – a dominant Persian civilization would have left Europe with quite another set of values and institutions.

The golden age of Athens

The Persians withdrew but their threat remained and a defensive league of many of the Aegean islands and Greek states in Asia Minor was set up in 478 BC under Athenian leadership, with its headquarters at Delos [4].

A navy was established, maintained by contributions of money or ships.

Soon Athens, as the most powerful Greek state, came to dominate the Delian League and, under the guidance of her statesmen Cimon (died 449 BC) and Pericles (c. 490–429 BC), became a maritime empire in all but name. The democratic system was refined under Pericles, and the great buildings and cultural achievements that were to make Athens famous grew from trade.

Inevitably, the power of Athens aroused jealousy and fear, particularly in Sparta, which continued to dominate the Peloponnesian states, and Corinth, the other great trading state. There was sporadic warfare during the 450s BC and Athens built up a land empire in Megara, Boeotia and Achaia, but this was abandoned in 445 BC after concluding a truce with her rivals. Hostilities broke out again in 431 between the rival alliances and Athens, secure behind the Long Walls linking her with her major port of Piraeus [5], allowed the Spartans to invade Attica and instead concentrated on using her maritime power to wear down her enemies.

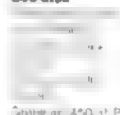
Pericles died of plague in 429, but his strategy was continued by Cleon (died 422 BC). Neither side could decisively defeat the other, and a peace was reached in 421. This lasted only two years before fighting broke out again, in 415 the war party in Athens led by Alcibiades (c. 450–404 BC) persuaded the people to launch a major expedition to invade Sicily and capture Syracuse. The venture was a ghastly failure, and in 413 the bulk of the Athenian army and navy were destroyed. Despite the disaster Athens fought on, although her enemies were now being financed by the Persians and several of her allies revolted. In 405 the remainder of the Athenian navy was surprised and destroyed at Aegospotami by Spartans under Lysander (died 395 BC), who then besieged the city. When it surrendered in 404, an oligarchy replaced democracy, and the Spartans took over the Athenian Empire.

Decline of Spartan rule

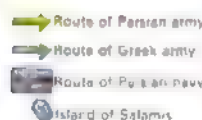
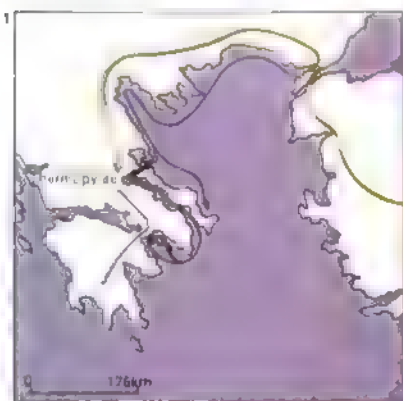
This Spartan supremacy was short-lived, spurred on by the exploits of Xenophon's Ten Thousand – Greek mercenaries who

CONNECTIONS

See also



Chapter 11: 450–400 BC



1 After the Persians overran Athens, the

refugees fled with the Greek navy to Salamis. There, by a stratagem the Greeks trapped the Persians and destroyed an entire corps as well as 200 Persian ships for a loss of only 40 of their own.

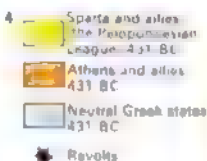


2 An Athenian trireme was the type of warship that defeated the Persians at Salamis and was the mainstay of the powerful navy built up under the direction of Themistocles at the beginning of the 5th century. The navy was significant in the democratic system, for it was largely manned by the poorer citizens and provided them not only with a livelihood but also with a source of pride and power. Since much of the wealth and power of Athens came from trade and her maritime empire, the common people could assert that they were the backbone of the state and should play a major part in its political life.

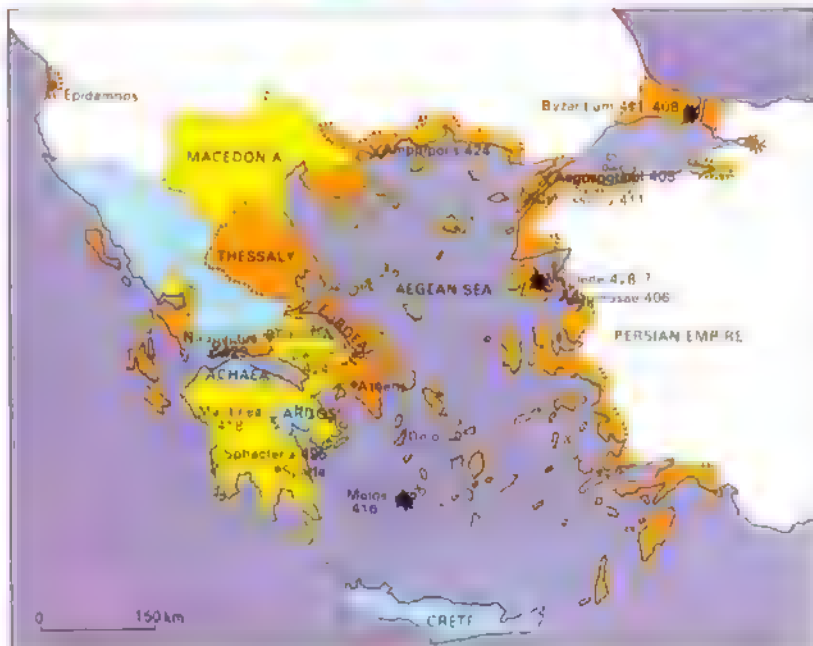


3 This Athenian four-drachma coin shows the owl of Athena who was the patron goddess of the city. Athens' naval and trading domination of the Aegean gave the city great wealth which was lavished on fine buildings and the arts and

allowed its citizens the leisure to participate in the democratic system or to make contributions to philosophy and literature. Even during its decline Athens remained the acknowledged intellectual and artistic leader of Greece.



4 After the defeat of the Persians, Athens used its navy to secure the Aegean against them and to liberate the Greek states in Asia Minor. Soon the defensive Delian League was turned into an aggressive empire with Athens intervening directly in the internal affairs of allied states. Sparta's fear of this expansion caused it to encourage revolts and oligarchic governments, and led in 431 to the start of the Peloponnesian war which engulfed most of Greece.



made an epic march across the Persian Empire – a crusade was launched to regain the freedom of the Greek states in Asia Minor, but the Persians encouraged the Spartans allies to turn against them and the attempt had to be abandoned in 387 leaving them under Persian domination.

The next 50 years show the worst features of the Greek political system of the Classical age, with petty jealousies and continual military rivalry preventing the emergence of any wider unity. Athens recovered quickly, democracy was restored in 403 and by 371 she was again leading a naval confederacy against Sparta. However it was Thebes that became the next dominant power when it destroyed the Spartan army at Leuctra in 371. After a decade she too began to decline and Phocis, by capturing the treasure of Delphi, was able to hire mercenaries and set up a temporary mastery.

The Hellenistic age

Interstate rivalries continued and prevented the Greeks from realizing that a new threat was growing in the north. The Macedonians

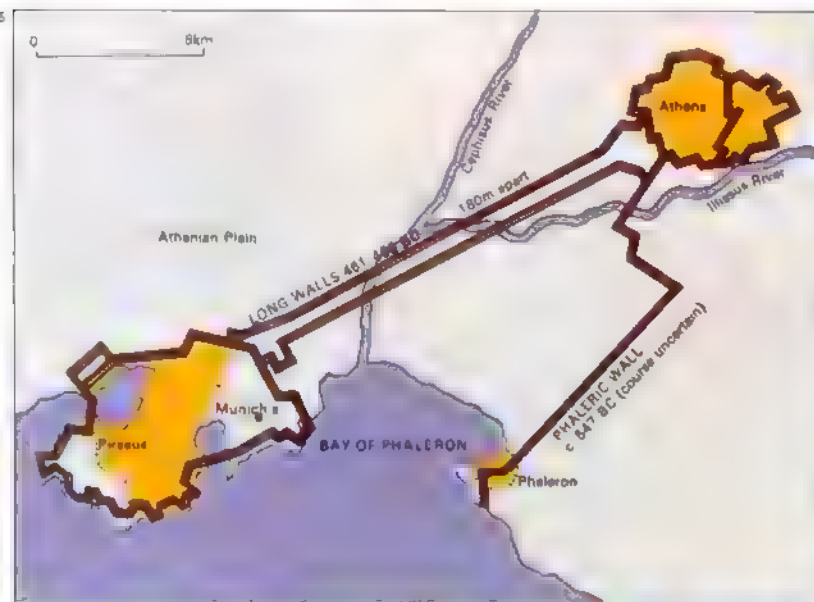
had hitherto been a loose confederation of tribes, but in 359 Philip II (382–336 BC) became king. A fine organizer, general and diplomat, he unified the tribes in his own kingdom and then went on to annex Thessaly in 352 and Thrace in 342.

The Athenians were the first of the Greeks to become aware of this new danger for Philip's power threatened their lucrative trade routes to the Black Sea. However years of relative peace had made the people of Athens apathetic and lacking in military zeal. A few orators such as Demosthenes (died 322 BC) tried to arouse them to the danger to their trade and to their city, and to exhort them to put an end to traditional rivalries so that the Greek states could unite against this new peril. Eventually a Greek league was formed, but in 338 Philip routed its armies at the battle of Chaeronea and occupied Thebes. Athens prepared to continue its resistance but there was little support elsewhere and at the Congress of Corinth a new league of Greek states was set up under Macedonian leadership. The independence of the free city states was at an end.

KEY

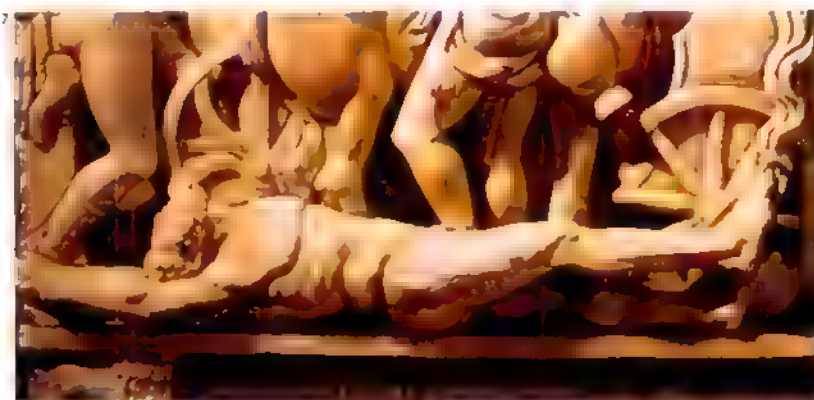


A Greek hoplite is shown killing his Persian enemy on this vase. The Greek Classical age is usually taken as beginning with Pausanias' defeat of the second Persian invasion in 479 BC and ending with the establishment of Macedonian power over all Greece in 320. Many of the great achievements of the Greeks flowed directly from the feeling of security and superiority that followed the Persian defeat, but with their devotion to the small city state and their obsession with political and military manoeuvring, the Greeks failed to develop a wider political unity which could have resisted the rising power of Macedonia.



5 Themistocles began the development of Piraeus as the base for Athens' navy and its vital trading and commercial port. The Long Walls were built to link it with the city and give Athens the means to maintain her maritime power even when its territory was invaded. It was symbolic that when Athens was defeated in 404 the Spartans insisted on the immediate demolition of the walls.

6 The hoplites were heavily armed soldiers trained to fight in a highly disciplined phalanx (a solid formation). They were usually recruited from the merchant citizens, who thereby won great political power.



7 Throughout the Classical age there was almost continual fighting between city states. This weakened the Greeks politically, but did not prevent a flowering of the arts, literature and philosophy. The above relief comes from a Hellenistic

sarcophagus found at Tyre and depicts the Death of Hector. The achievements of Athens have tended to overshadow the fact that many other states, both on the Greek mainland and in Asia Minor, also produced great artists and writers.

8 The Temple of Athena at Delphi, whose oracle was presided over by Apollo, was part of the widely respected shrine in ancient Greece. Religion in the Classical age was an affair of sacrifices and ceremonies by the state

or individual that contained little moral guidance or mystical experience. However a belief in the same gods and legends did promote the feeling of a common culture which was added to by semi-religious festivals such as the Olympic games.



Classical Greek society

Classical Greece was the birthplace of many of the most influential Western ideas in art, literature, philosophy and science. Its other great contribution was in politics, for it was there that the ideals of democracy were first developed. In all these areas Athens was pre-eminent, a fact recognized even by her contemporaries. In two centuries she produced a succession of outstanding writers, artists, scientists and philosophers. Many who were not natives were attracted to the city, and there are few important figures in Greek cultural life who were not associated with Athens for at least part of their careers.

Athens and democracy

The city state of Athens, with an area of about 2,500 square kilometres (1,000 square miles), was the largest of the many city states into which Greece was divided. Her population at its peak was about 260,000, of which about 45,000 were male citizens and about 70,000 slaves. The rest were women, children and resident foreigners or *metics*. Corinth may have had a population of 90,000, Thebes, Corcyra and Acragas about

50,000 each, and the other states anything down to 5,000.

Politics in all these city states was a very intimate affair and this profoundly affected the Athenian concept of democracy [1]. It was based on direct participation, rather than representation, with every citizen having an equal opportunity to hold high office. In common with many other Greek states, Athens went through the transition from oligarchy (a small number of individuals holding power) to tyranny (a single all-powerful ruler) with struggles between rich and poor before the reforms of Cleisthenes in 508 BC established a democratic framework.

The essence of this democracy was the citizen body or *Demos*. Citizenship was a jealously guarded right, rarely given to foreigners and never to women [5] or slaves. All power was vested in the *Demos* which met in public assembly about every ten days [2]. There, any citizen could put forward proposals for laws or action which were discussed and voted on, and the civil and religious officials were chosen. Juries were selected from volunteers, and the business of the Assembly

was prepared by a Council of 500, the *Boulé* elected by the ten tribes into which the citizens were divided.

Rights and duties

Every Athenian citizen had the right and duty to serve the state but, because there were more than 1,000 offices to be filled each year, the system could work only if there were enough men with both the time and inclination to devote their lives to public service. It is a remarkable fact that at no time was Athens short of able men to serve with little or no reward, and it was only during the fourth century BC that a small payment was introduced to help the poorest citizens to participate fully.

Athenians gained their wealth from land trade and commerce. At the beginning of the fifth century Athens was a major exporter of pottery, oil and wine and an importer of fish, timber and wheat on which it was largely dependent. In Athens, in particular, a definite class of capitalists and an urban proletariat developed. Their leisure resulted from the widespread use of slaves to under-

CONNECTIONS

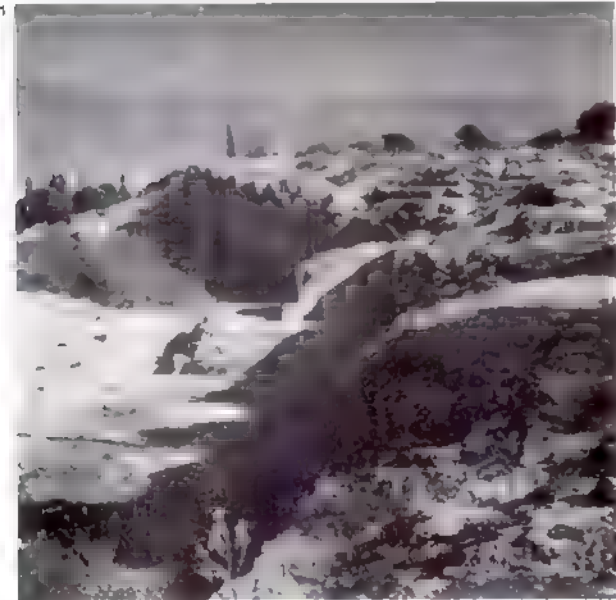
See also

1. The hub of Athenian democracy was the Pnyx where the Assembly of citizens gathered for its regular meetings. Public and social life was a gregarious and open affair with informal discussion, theatre and sports providing the most common interests.

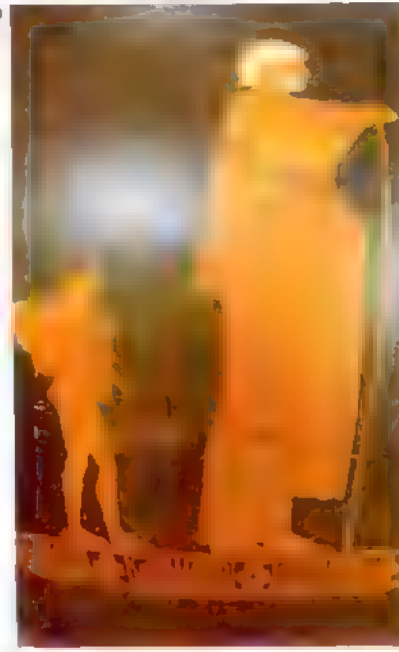
2. Fifth-century Athenian democracy was based upon the power of the Assembly of citizens to vote on all major decisions. Public officials were responsible to the Assembly and were chosen by the ten citizen tribes for limited terms only. The ten military commanders or *stratēgoi* were elected and could serve for more than a year. Popular control over both the magistrates and the law could also be exercised through the courts where the large citizen juries had legislative as well as judicial powers and could try a law as unconstitutional.

3. A Negro slave follows a member of the leisured class. Athenian democracy with its large number of officials, many being filled by unpaid or low-paid citizens, depended on a plentiful supply of men with the inclination and leisure to undertake them. Athenian civic responsibility and pride in the system meant that there was never a lack of volunteers and this was helped by the wealth from land and commerce which flowed into the city. The large-scale use of slaves freed citizens for public service. Athenian thinkers saw no contradiction between the individual rights and freedom on which their system was based and the slaves upon which it depended.

4. A heifer is led to sacrifice in a religious ceremony. Greek religion was supervised by the state – the correct prayers and sacrifices were carried out by elected priests or private individuals – but there was little of the moral certainty and interference in private affairs that characterized later religions. The gods were irrational and arbitrary and had to be placated, often by sacrifices, their conduct provided little guidance.



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take many of the most basic jobs [3]. Despite this influence of the wealthy, it is also remarkable that Athenian democracy saw few of the direct confrontations between rich and poor of the kind that caused continual unrest in most other city states.

All citizens and *metics* were liable for military service, but usually only the more wealthy were called up because troops were expected to equip themselves. By the early seventh century BC the typical Greek soldier was a heavily – and expensively – armed hoplite infantryman [6]. At the height of the Peloponnesian war Athens put about 16,000 hoplites into the field, few other states could raise as many. In Athens the navy was especially important and had an intake of about 2,000 citizens a year.

Sparta: a military state

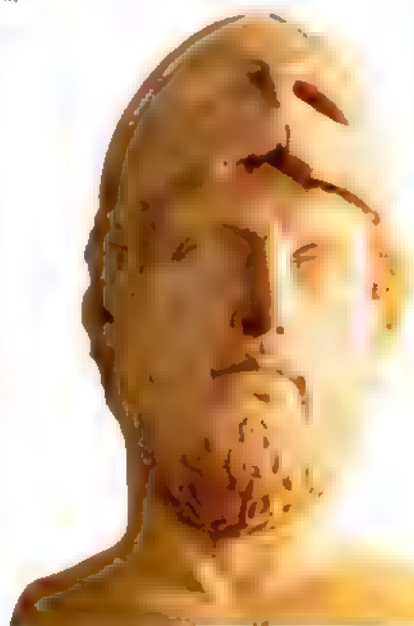
No other state reached such a fully developed system of democracy as Athens. Its main rival for much of the period was Sparta, whose political and social system is remembered as representing the political opposite of everything that democracy stands for. By 600 BC

Sparta had become a unique military state. Laconia and Messenia had been conquered and their populations either enslaved (*heleis*) or deprived of political rights and forced to support the Spartans through taxation and food and manpower supplies.

To prevent revolt or secession, Sparta became a military camp. The citizen body was never large – probably never much more than 5,000 – but everyone was a professional soldier devoted from childhood to absolute discipline and the art of war. Two hereditary kings commanded the army in the field and were members of the ruling council of elders who were elected for life from citizens over 60. Five elected *ephors* had civil and judicial functions. No other Greek state approached Sparta in exclusiveness or xenophobia – even trade and commerce were largely disdained. A total refusal to admit new citizens led to a declining population and eventual defeat.

Sparta has remained the model of a closed and totally disciplined society, but it was Athens whose pursuit of individual freedom and democracy gave the modern world two of its most precious and lasting ideals.

KEY



Pericles (c. 490–429 BC) was the great Athenian statesman under whose leadership the city became the richest and most powerful Greek state. He was responsible for the building of the fine temples and monuments on the Acropolis.

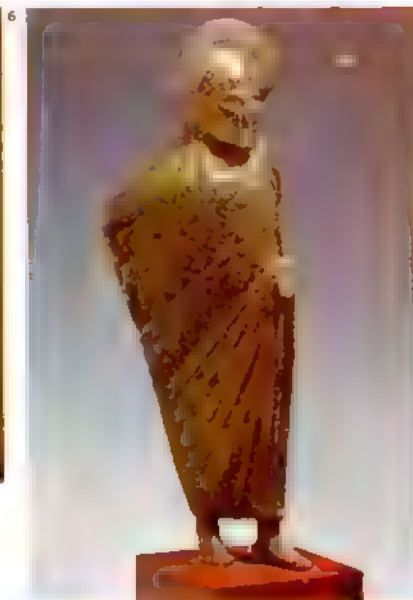


5 Women in Classical Greece were the other great slave class: they had no political or legal

rights and were excluded from all public affairs. Their place was in the home with the chil-

dren. Their absence from much social life led to wide spread development of homosexual rela-

tionships and the institution of the *hetaira* – high class courtesans outside conventional mores.



6 Spartan infantrymen (hoplites) were normally well and expensively equipped. The Spartan political system of a totally mobilized citizenry devoted to military service (boys were sent to barracks at the age of seven and not allowed other interests) was unique in Greece and gave Sparta far greater importance than its relatively small size justified. Most other states relied upon temporary conscription to fight the frequent wars that were endemic to Greek life. But a class of professional mercenaries did grow up during the 4th century, possibly as many as 50,000. In all, some fighting for the Persians.



7 Gods and goddesses with Athena holding a shield inscribed with an owl are shown on this Greek vase. The pantheon was featured in the epics of Homer and was the basis of the religion of Classical Greece. The gods were conceived of in

human form with human emotions. They often interfered in human activities and could be invoked or calmed by prayer and sacrifice. There was little belief in an afterlife: religion was strictly temporal, devoted to a pleasant existence.

8 Athletic competitions and the cult of the well-trained and healthy body played an important part in everyday social life, the gymnasium or stadium being a popular meeting place where men could talk and hold political or

philosophical discussions. The Greeks dated their history from the first Olympic games in 776 BC, a festival which with contestants from all over the Greek world, provided an opportunity for Greeks to gather as a nation.

Greek literature and theatre

Only a fraction of the literature of ancient Greece has survived but what we have is superb in its diversity, nobility and subtlety. Its influence on later European writers, both directly and through derived Latin literature, has been enormous.

The *Iliad* and the *Odyssey*

Homér [kév], one of the greatest names in literature still remains a shadow. We do not know whether his works are a compilation of lays, the writings of two or more minstrels or the masterpieces of one towering genius, although the last seems unlikely. What is indisputable is that the *Iliad* and *Odyssey* are among the greatest of literary works. Composed probably in the seventh or sixth century BC, they deserve semi-divine characters. Statues are only.

The *Iliad* portrays events towards the end of the Trojan War. The story has a substratum of fact, although basically it is a masterpiece of poetic imagination. The latter *Odyssey* [1] describes Odysseus' experiences on his return journey from the war. A little later than Homér, Hésiod wrote

two epic poems with strong didactic elements, *Works and Days* and *Theogony*. The only other Greek epic poet of note was Apollonius Rhodius (born c. 295 BC).

The Greek poets in general preferred the greater freedom of metre and expression offered by the lyric form. Lyric poetry developed from songs sung to the lyre and reached its height during the seventh and sixth centuries BC, but only fragments have survived to demonstrate the passion, clarity and vigour of the work of such poets as Pindar, Sappho and Alcaeus [5] of Lesbos, Alkman of Sparta, Anacreon of Ionia and Simonides of Ceos. Stesichorus, credited with the invention of the choral hymn celebrating the heroes of epic poetry, was a strong influence on Pindar (c. 522–c. 440 BC).

The Greek tragedians

Our debt to the Greeks is perhaps most marked in the field of drama. The 31 tragedies that have survived have moved audiences and inspired writers throughout the world for more than 2,000 years.

The three giants of Greek tragedy are

Aeschylus (c. 525–456 BC), Sophocles (c. 495–c. 406 BC) and Euripides (c. 480–406 BC). Each has his own particular genius: Aeschylus his grandeur, Sophocles his ability to convey moral dilemmas and Euripides his insight into human nature. Greek tragedies were performed at festivals. Three tragedies were given at a sitting plus one satyr play, a grotesque parody of ancient legends.

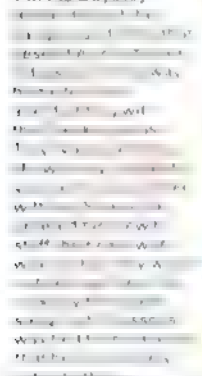
It is uncertain exactly how tragedy developed the sophisticated form that has come down to us. It seems likely that it grew out of choral songs performed at religious festivals. A semi-legendary poet named Thespis (hence, thespians, meaning actors) is reputed to have introduced a character who responded to the comments of the chorus. True drama involving conflict of interest began when Aeschylus introduced a second actor. Sophocles used three actors and injected a greater degree of realism. Euripides offended many people by his realistic treatment of the old subjects and the comparative realism of his themes. The motivation of his characters is convincing and his portraits of women memorable.

CONNECTIONS

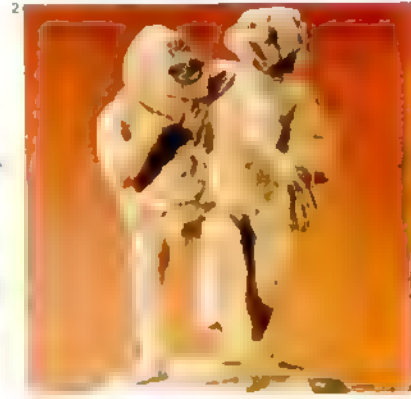
See also

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1 In the *Odyssey*



2 This terracotta statuette of the 4th century shows two actors playing the roles of drunken old men. As was customary in Greek comedy, the actors wore grotesque masks and weird costumes, in this case padded wrkins and tight shoes. In tragedy, actors had three attires, and a chorus and the plays were performed at festivals. And like tragedy, comedy grew from choral songs, but of a ribald nature.



3 Seasons of Greek tragedy are presented annually at the magnificent theatre of Epidaure, dating from the 4th century BC. The various parts of the theatre may be discerned. In front is the circular orchestra on which the chorus danced and sang. Behind it is the stage on which the actors performed. At the back of the stage is the skene, or permanent background, made of wood in early times and later of stone. The play shown is of Sophocles' *Electra*, the story of the revenge of Orestes, son of Agamemnon and brother of Electra, for his father's death. The actors are to the right, the chorus centre and left. Of Sophocles' work, seven complete tragedies survive with several hundred fragments of others. Immensely successful in 5th-century Greece, he remains admired for the skill with which he structured his plays, but even more for his characterization, especially that of his heroines.



Greek comedy is virtually synonymous with the 11 plays we have by Aristophanes (c. 448–c. 388 BC). The comedy is broad, the characters ludicrous, but the satire of the life, ideas and leading figures of the time is often sharp. He is not afraid to lampoon even the gods. Menander (c. 342–292 BC) wrote urbane comedies of manners which lacked the exuberance and bite of Aristophanes. Imitated and translated into Latin by Plautus and Terence, they have influenced Shakespeare and Molière.

The historians

The two greatest historians of ancient Greece had very different approaches to their craft. Herodotus (c. 485–425 BC) took as his overriding theme the struggle between Greece and Persia. He was an inveterate traveller and raconteur.

The first scientific historian was Thucydides (c. 460–c. 400 BC), who actually lived through the events that he described in his account of the Peloponnesian war. He obviously questioned participants and eyewitnesses on both sides, related cause to

effect and presented the facts in a concise, direct style. Among other Greek historians of note was Xenophon (c. 430–c. 354 BC), whose *Anabasis* describes the retreat of 10,000 Greeks across Asia Minor and Polybius (c. 200–c. 120 BC), whose *Universal History* contains a penetrating account of the rise of Rome.

The two remaining branches of Greek literature are oratory and philosophy. Oratory was highly valued in Greece, although the written speeches we have are obviously partly literary creations. Of the leading orators, who included Lysias, Isocrates and Aeschines, Demosthenes (c. 384–322 BC) was by far the greatest. An active politician, he is best known for his eloquent speeches against Philip of Macedonia and the speech in his own defence. On the Crown. Of the philosophers, Aristotle's (384–322 BC) most polished literary work is lost, although the theories enunciated in his *Ethics*, *Politics* and *Poetics* have been extremely influential. The *Dialogues* of Plato (c. 427–347 BC) [7], on the other hand, show Greek prose at its best.



Homer is regarded as the father of Greek literature. His importance can be judged by his appearance on

this 4th century coin from Rome. The *Iliad* and *Odyssey* probably evolved from singers' tales but

scholars do not know how the poems reached their present form, or if one great figure created them.

4 The chorus in a Greek tragedy is depicted on this vase as dancing to the metre of the verse and singing to the accompaniment of a flute. Particularly in its early period, Greek tragedy incorporated two styles: Dialogue between the actors or the actors and chorus, was spoken in iambic rhythms. Choral odes, on the other hand, were based on many complex metres that reflected the emotions of the poetry.



6 No Grecian musical instruments have survived, but from vases and paintings it is known that the main instruments were the aulos (or flute A), and two types of lyre, the cithara (B) and lyra.

C Aulos were usually played in pairs, sometimes joined by a mouth band. The cithara was heavy and was used by paid musicians to accompany epic songs. The lighter lyra was used by amateurs.



5 A wine cooler of the 5th century shows the lyric poets Alcæus and Sappho. Little remains of Sappho's nine books of verse except for one ode, but there is enough to show her as unequalled for the passion and tenderness of her love poems. Alcæus, her contemporary and friend, is also known only by fragments, which express political thoughts and outpourings of love and hate.



7 This Roman mosaic from a villa near Pompeii, shows the olive grove, dedicated to the Greek hero Academus, where Plato founded the Greek school of philosophy called the Academy. In c. 387 BC Plato (third from left) is shown here teaching at the Academy, which lasted until AD 529 when it was suppressed by the Romans. Plato was a master stylist, his *Dialogues* (often with Socrates) ranges from casual conversation to dramatic confrontation and his work provides us with the prototype of the philosopher questioning, wise and humble. His thought has been a major influence on Western philosophy up to the twentieth century. To Plato, reality perceived through the senses is a copy; the form or idea is the "real" reality. To achieve knowledge of ideas one must be capable of pure intellect or pure reason. As well as philosophy Plato taught science and mathematics at the early Academy.

Greek art 1100–450 BC

Greek art and architecture underwent in seven centuries a gradual but profound change, from a primitive phase to a high level of refinement on the brink of the Classical period – the period that has exerted an enduring aesthetic and technical influence on the art of our own era. The objectivity and naturalness achieved in the Greek image of the human figure has remained the norm of later societies in the West. But it should be realized that because of the disappearance of textiles and woodwork and the paucity of early metalwork, the bare stone of ruined temples and the weathered surfaces of sculptures convey no impression of the original colour and variety of Greek art.

The origins of Greek art lie in the Mycenaean culture of the sixteenth century BC. Following its overthrow in the twelfth century there was a 'dark age'. The only examples of the material culture of this time are vases bearing simple linear devices in a style known as protogeometric [1]. The rebirth of Greek art, however, was effectively a rebirth – the renaissance of the ninth and eighth centuries BC – by which time the

development of trade and the demands that a settled society made on its craftsmen produced a range of functional and aesthetically pleasing objects.

The zigzags and other motifs of the geometric art that flourished between c. 900–700 BC became progressively bolder and more elaborate and gradually figures of men and animals were included. Stylized figures were presented in a purely conceptual manner, with no attempt to depict perspective or movement. These early scenes of funeral processions and battles were a breakthrough, they were the first steps towards the narrative art that was to become the dominant feature of the work of Greek artists who drew on the heroic tales of the *Iliad* and *Odyssey* for inspiration.

The High Archaic period

The High Archaic period of c. 600 BC saw an Oriental influence developing partly early out of the trade with the Phoenicians. Craftsmen from Cyprus and Syria worked in Crete and Attica and their innovations were assimilated by the native Greeks. Floral and

curving patterns were added to straight line motifs and distinctive styles emerged in the painting of Corinth and Sparta.

Athens – originally the acknowledged centre of geometric painting, engaged less in trade and colonization and for a time was eclipsed artistically. But as a direct result of the importation of ideas from Egypt, this period saw the first major works of Greek architecture. Based on the temple design of Egypt, wooden columns and other features were progressively replaced by their equivalents in stone and the 'orders' of Greek architecture emerged, beginning with the Doric in the second half of the seventh century. Sculpture also developed under Eastern influence – originally employing moulds for the casting of small stereotyped images for shrines. By about 640, however, larger statues, derived from Egyptian models, were being manufactured. Plentiful domestic supplies of marble and ancillary materials, such as emery for smoothing, were exploited. During this time the tradition of the *kouros* figure [2] was established.

Although owing much in stance and

CONNECTIONS

See also

1100–700 BC

700–600 BC

600–500 BC

500–400 BC

400–300 BC

300–200 BC

200–100 BC

100 BC–AD 100

AD 100–500

500–1000

1000–1500

1500–1800

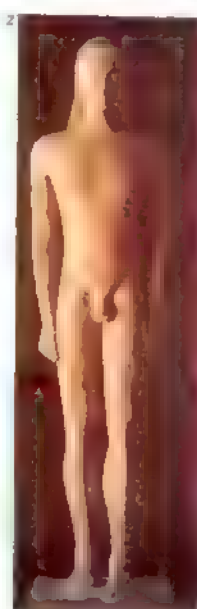
1800–1900

1900–2000



1 Protogeometric pottery decorated with simple circles and wavy lines, probably originated in Athens before the end of the 11th century. As the pottery craft evolved these motifs, often based

on the patterns of basketwork and produced on a massive scale (up to 1.5m/5ft. high), became more complex with the introduction of zigzags, frets and stylized figures of animals and men.



2 Kouros are figures of naked youths that are derived from Egyptian examples. They are often used as grave markers and are typically elegant with clenched hands and one foot advanced.



3 A masterpiece of black-figure painting, this amphora was made and decorated by Exekias (fl. c. 550 BC–525 BC), the greatest painter of his time. It marks the rebirth after 600 BC of Athenian painting. Its detail captures the drama of the moment of death when, according to legend, the eyes of the Amazon queen Penthesilea met those of her slayer Achilles and she realized that he loved her.



4 From earliest times the Greek architect's chief concern was with temple building. Based on the traditional house plan and originally constructed in wood, their designs evolved until, in the 6th century BC, stone superseded wood. Many of the elements from carpentry, such as the edge-like grooves in columns, were retained. Originating in main and Greece, the first and longest enduring of the 'orders' – the Doric – was established. Although modified by western Greek colonists, the temple of Hera at Paestum fully retains the classic Doric attributes and is one of the best surviving examples of the style.

manufacturing technique to earlier Egyptian works, a distinctive Greek style emerged. The Greek preoccupation with athletic sports was such that figures of youths were characteristically naked and, through the requirements that this form imposed, sculptors were compelled to study anatomy in great detail – an important factor in the development of Greek sculpture.

Corinth, a centre for pottery

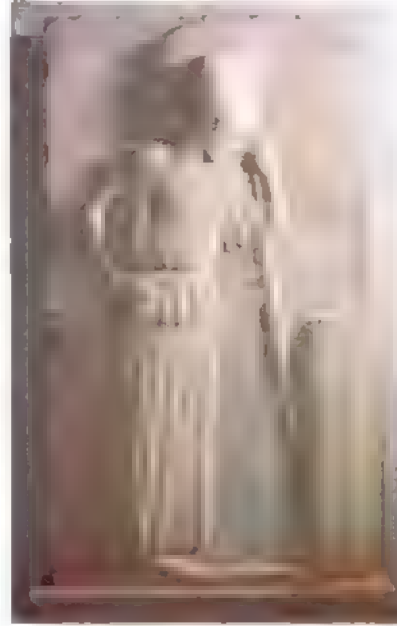
About 700 BC, Corinth had taken the lead in the Greek pottery world and the black-figure technique reached and perfected there, practiced for over 200 years. During the Archaic period, Greece was experiencing a new found prosperity. Her colonial expansion was rapid, complex and the development of stable cities provided the patronage that encouraged wide range of artistic endeavours. Pottery, temple building increased and the Ionic order was introduced; temples became more beautiful and they were decorated with scenes and figures of increasingly great interest. An ever growing understanding of human anatomy

was applied both to a more naturalistic style of sculpture in the round and in relief and to the establishment in vase painting of a set of formal gestures and an iconography on which many unrivalled masterpieces of black-figure painting were based.

Athens and red-figure paintings

By 530 BC, red-figure painting had been invented [5] and Athens had become the chief centre of the style which, as a result of its superiority in allowing greater attention to detail, soon ousted the black-figure technique. The artistic feeling of the Early Classical period (c. 500–450 BC) was profoundly affected by devastating social, economic and especially psychological consequences of the Persian Wars (490–478 BC). The most striking examples of this are seen in the dramatic abandonment of the "Archaic smile" expression and its replacement by a more sober and objective rendering of faces. As the most sudden change in artistic outlook in many centuries it was to contribute greatly to the humanistic "detached calm" that characterizes the subsequent period.

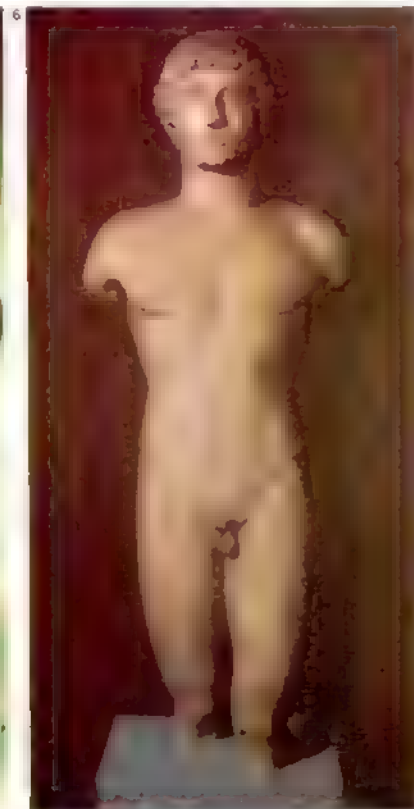
KEY



One of the finest examples of the sculpture of the Archaic period is the so-called Mourning Athena. The blending of full and three-quarter profile views is badly executed and the facial expression and relaxed and natural posture of the subject vividly convey a pensive mood appropriate to the purpose. It was once thought that the relief showed Athena mourning by a grave marker, but it is now held that it is a votive offering by a games victor and that the goddess stands beside a *terma*, the starting point of the race. The craftsmanship anticipates the perfection of the sculpture of the Classical age.



5 Red figure vase-painting, in which the figures are painted in sharp relief in red against an inkly black background, began in the late Archaic period (about 530 BC). This vase, a bowl for mixing wine and water, is a fine example of the style. It depicts a scene from the Trojan Wars, Achilles and Hector, in a moment of combat. The figures are shown in a dynamic pose, with Achilles on the left and Hector on the right. The background is a solid black, and the figures are painted in a reddish-brown color. The style is characteristic of the Early Classical period.



6 An outstanding example of free-standing sculpture from the late Archaic and early Classical period: the Strangford Apollo (after its former owner, Lord Strangford) marks the consummation of over a century in the evolution of free-standing sculpture. The early stiffness and formality of style was replaced by an increasing awareness of anatomical accuracy in sculpture.



8 The life-sized bronze statue of a charioteer, commissioned c. 470 BC, is an offering in celebration of a victory by a Sicilian tyrant, Polyzeus of Gela. It is of exaggerated proportions because it was designed to be viewed from below and partly concealed by the coachwork of the chariot in which it once stood. Although superficially archaic, the modeling and stance of the figure are subtle and brilliantly conceived, making it a classical masterpiece.



7 The "Ludovisi Throne" of the transition from Archaic to early Classical sculpture is remarkable for the fine quality of its moulding, particularly the effect of suggesting wet hair and clothes. Once in the collection of a Roman cardinal, it is of obscure origin and use but is perhaps part of an altar. The work of a western Greek artist, it shows the birth of a new style from the sea, and by two attributes.

Greek art 450–31BC

After about 450 BC Greek art entered a phase regarded by succeeding generations as its great Classical period. It built on experience, took in new influences (especially from the East) and sought higher goals. Trends that had previously been evident, such as the concern with naturalism in sculpture, reached their peak in the work of such masters as Phidias, who is now regarded as the creator of Greek classical art.

Classical formalism

Yet throughout the art of the High Classical period (c. 450–400 BC), and allied with its technical virtuosity, is restraint in emotion and a lack of extremes. The art is formal, with few representations of youth or old age and virtually no depictions of anger or pleasure. The concern of the Greek sculptor for an ideal, a perfection of form, led him to a style that was serene and restrained but impersonal and cold.

The High Classical period saw the resurgence of Athens as a great artistic centre, particularly under the ruler Pericles (c. 490–429 BC). After the destruction of the

Persian wars, a rebuilding programme of unsurpassed vision produced some of the world's most remarkable buildings – the Parthenon [3] and Erechtheum on the Athenian Acropolis especially stand out for their magnificence. The sculptures of the Parthenon offer a realism and grandeur of concept unrivalled in the history of art [Key]. Similarly splendid architectural sculpture, reliefs, votive statues and cult figures also date from this period – Phidias' massive statue of Zeus because the Temple at Olympia was universally regarded as one of the Seven Wonders of the Ancient World.

Although the heroic male figure remained the most typical, sculptors turned increasingly to representations of females, paying particular attention to draperies (for example, Nike (the goddess of victory) figures [7]). This shift from the idealized portrayal of the nude male to the stylized draped female is an important element in the universalizing process which was to alter Greek art. Among other arts, wall painting is known to have flourished in the High Classical period and indeed to have taken precedence

over vase painting, but material evidence is lacking. Die-engraving, especially in Sicily, was developed as a fine art.

Portraiture develops

In the Late Classical period (c. 400–323 BC) increased prosperity and patronage led to a shift from the unemotional conventions of the earlier classical period. Encouraged first by the prestige-seeking rulers of the western Persian Empire, true portraiture developed as a rival to idealized representations of divinities. Similarly, monumental tomb sculpture was introduced as a celebration of status. It is no coincidence that from this period comes the superb sculptured tomb of King Mausolus of Caria at Halicarnassus, from which the word mausoleum is derived. This work, like that of the Alexander Sarcophagus [5], was produced by Greek craftsmen working on the fringes of the empire, their work and that of mainland Greek artists – Praxiteles [4], Scopas and Lysippus in particular – mark the transition from Classical idealism to Hellenistic realism. Lysippus, for example, Alexander the

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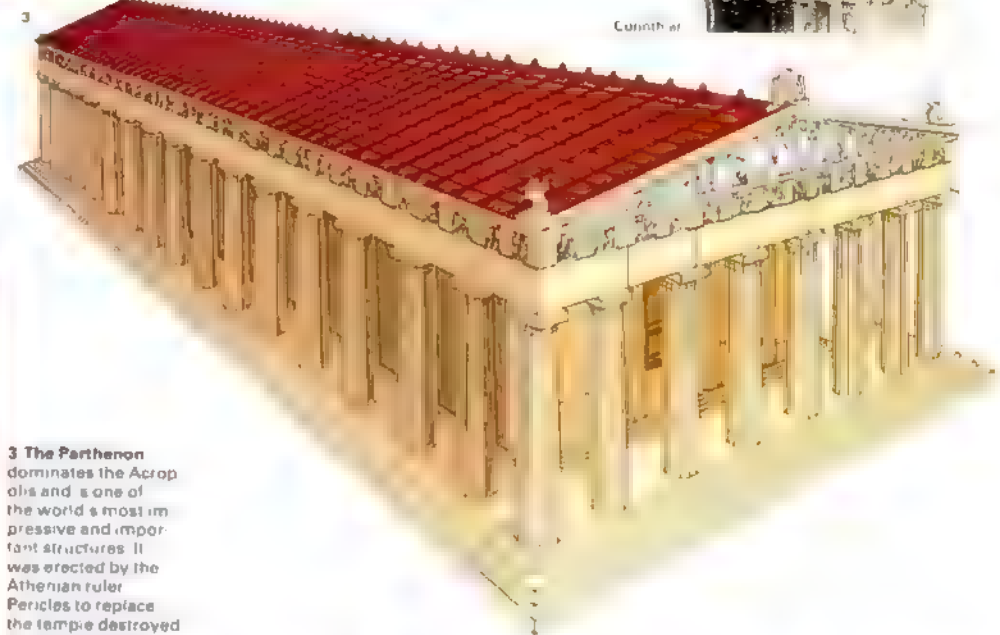
See also

1 The three main Greek "orders" are the Doric, the earliest, whose capital has a deep abacus (the flat slab at the top) and wide spreading echinus (the moulding beneath); the Ionic with a thinner abacus and projecting spiral scrolls with rich carvings; and the Corinthian, deeper, more elaborate and, until its adoption by the Romans, less popular than the other two orders.



2 "Poseidon of Artemisium" is a representation of one of the most revered gods of the seafaring Athenians – presents an artistic bridge between the rather stylized portrait sculpture of the

earlier ages of Greek art and the naturalism of the classical era. He is among the most splendidly modelled of all surviving bronze statues with his muscular body and fine head.



3 The Parthenon dominates the Acropolis and is one of the world's most impressive and important structures. It was erected by the Athenian ruler Pericles to replace the temple destroyed by the Persians in 480 BC. Under the overall direction of the sculptor Phidias, with Ictinus and Callicrates as architects, it took shape in the years after 447 and was completed by 438 BC, except for the sculptures, which took a further six years.

Designed as an expression of Athens' supremacy and civic pride, it was Greece's largest and most costly building and a fitting centre for the display of Phidias' ivory and gold statue of Athena. The Parthenon embodied many bold archi-

tectural innovations and the most cherished artistic conceptions of the day. Entirely of the Doric order, it has 8 front columns instead of the usual 6 and 17 in the peristyle. The entasis or bulging effect of the columns

counters the optical illusion of concavity that would otherwise occur and their slight inward leaning, coupled with the outward tilt of the upper works, calculated to the minutest degree, ensure its harmonious proportions. The

frieze and metopes, which were originally richly painted, were more refined, spectacular and skilfully executed than any predecessors and stand out among the world's greatest works of sculpture both in relief and in the round.

Great's official sculptor, produced works that, unlike some formal groups of earlier Classical times, could be viewed satisfactorily from virtually any angle. He also produced lifelike portraits of the patron. In response to the newfound wealth of the Greek Empire both painting and jewellery flourished.

Realism in the Hellenistic period

The Hellenistic period (from the death of Alexander in 323 to the Battle of Actium in 31 BC) was the last phase in the history of Greek art. The development of court life stimulated a wide range of arts. Pergamon was established as a leading centre of architecture and sculpture, while distinctive local schools emerged in the Seleucid Empire and in Alexandria and Rhodes. Athens alone preserved many of the traditions of classical art and continued as the primary centre on the Greek mainland.

The aspirations of the rulers of the Alexandrian Empire led to a greater emphasis on portraiture, which often attempted to convey the quasi-divine status of its subjects. For the first time, representa-

tions of men predominated over those of gods and the original religious and mythological flavour of Greek art declined and was replaced by accurate – if still sometimes idealized – depictions of notable people. Both public and domestic architecture became increasingly grand while large-scale temple building declined. The more elaborate Ionic order was generally adopted in preference to the austere Doric, and the Corinthian order was used for the first time in exterior construction [1].

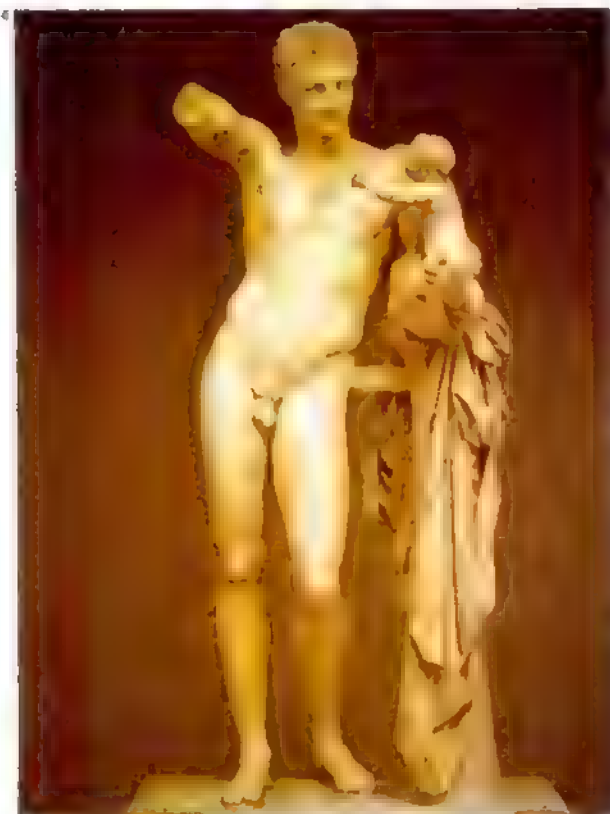
Works of sculpture such as the reliefs from the altar of Zeus, Pergamon, the Nike of Samothrace [7] and the Laocoön group depicted vigorous action and emotion [6]. femininity was portrayed in such works as the Venus of Milo; while physical suffering, anguish, old age and extreme youth were represented for the first time.

Towards the end of the Hellenistic period, a trend to the copying of earlier classical works can be observed. Through this process and the Romans' large-scale absorption of its chief elements, the continuity of Greek art was assured.

4 "Hermes carrying the infant Dionysus" – possibly the only surviving original work by the Athenian master sculptor Praxiteles, who was regarded as one of the greatest craftsmen of his age. This

work displays a refinement of technique seldom encountered before the Hellenistic period. The idealized classical beauty and proportions of the figure of Hermes are enhanced by the

impression of a graceful curving upward line as he playfully offers a bunch of grapes to the child god Dionysus. This statue was discovered inside the Temple of Hera at Olympia.



6 The famous statue depicting the death struggles of the Trojan prince Laocoön and his two sons was produced in Rhodes by Greek artists who specialized in compositions conveying violence and anguish, emotions which became characteristic

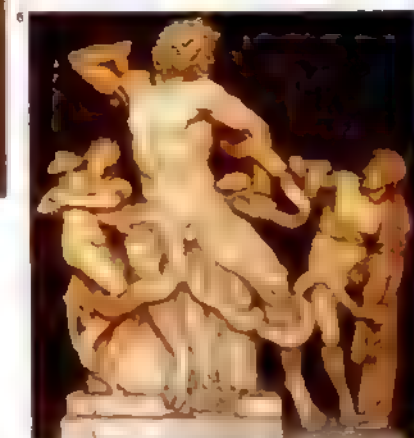
of Hellenistic art. Like many Greek works of the time, it was much admired by the Romans and was taken to Rome by the Emperor Titus in AD 69, where it was described by Pliny the Elder as 'superior to anything produced

in painting or sculpture'. In 1506 the statue was rediscovered in the Baths of Titus and bought by Pope Julius II for the Vatican, where it was studied by such artists as Michelangelo, Bernini and Rubens.



7 The Nike (Winged Victory) of Samothrace – an example of the superb work of the Rhodes school of sculpture from the Hellenistic period – was probably made to commemorate a sea vic-

tory over Antiochus III of Syria and originally depicted Victory alighting on a ship's prow. The powerful, yet light movement of the figure is expressed by the swirling garment.



The theme of the friezes from the Parthenon – the fight between the Lapiths and centaurs at the wedding of the Lapith king Peirithos – symbolizes the triumph of

order and civilization over barbarism. This was a constantly recurring motif in High Classical art.

5 The "Alexander Sarcophagus" was commissioned by the last king of Sidon, who owed his position to Alexander the Great. It was both a tomb and a monument in praise of Alexander's achievements. It depicts scenes from his life, including a battle against the Persians and a spirited hunting scene. It was greatly influenced by the work of Lysippos, greatest of all fourth-century sculptors, particularly in the modelling of the figures. It nevertheless conveys the vigour and dynamism with which Hellenistic art was inspired. It is also a fine example of Greek sculpture, showing traces of original paintwork.



Alexander the Great

Alexander, the son of Philip of Macedon and Olympia, princess of Epirus, was born at Pella in Macedon in 356 BC and died in Babylon in 323 BC. The pupil of the philosopher Aristotle between the ages of 13 and 16, he succeeded to the Macedonian throne in 336 BC on the assassination of his father, whose cavalry he had commanded two years earlier at the battle of Chaeronea. This battle had finally ended Athenian hopes of regaining the leadership of Greece, giving hegemony to the Macedonians who were, at best, peripheral Greeks. It also marked the victory of the soldier over the rhetorician, for it had been Demosthenes, the Athenian orator (c. 383–322 BC), who had most attacked the Macedonians and their king.

Securing the frontiers of Macedonia

During the next 13 years Alexander was to establish the greatest empire the ancient world had ever known [4], stretching from the Libyan frontier to the Punjab. His exploits gave rise to stories and legends in all the languages of Europe and many of those of Asia.

Upon his accession he marched south into Greece and, asserting Macedonian supremacy, had himself elected by the Greek League as a leader of an Asian expedition, one that had already been planned by his father. The oracle of Delphi hailed him as invincible. In 335 BC he campaigned towards the Danube to secure Macedonia's northern frontier. On rumours of his death, a revolt broke out in Greece with the support of leading Athenians. Alexander marched south covering 386km (240 miles) in a fortnight. When the revolt continued he sacked Thebes, killing 6,000 people and enslaving the survivors, sparing only the temples and the house of Pindar (c. 522–c. 440 BC), one of the greatest of Greek poets. His base thus secured, he prepared for the campaign for which his father had raised him. He also needed the riches of Persia to pay his army's debts to the Macedonian army.

The victory over Darius

Alexander crossed the Hellespont in 334 BC, with 30,000 infantry, 5,000 cavalry and a corps of specialists. He paid a visit to Troy

and at the River Granicus fought a battle that opened Asia Minor to his southward drive. He defeated Darius, the Persian king (who fled, leaving his family), at the Issus [2] in 333 BC and continued until his advance was held up at Tyre, which fell in July 332 BC.

After the sack of Tyre, Alexander went to Egypt, where he founded the city of Alexandria. On visiting the shrine of Ammon at Siwah Oasis, he was greeted as pharaoh, son of Ammon, an event that gave rise to stories of his divine origin. In 331 BC, he marched eastwards to the Euphrates and fought another battle at Gaugamela, but Darius once again escaped. Alexander received the surrender of Babylon and Susa with their riches. In 330 BC he captured Persepolis, then he sent the Thessalians and Greeks home, apparently planning a Persian-Macedonian empire. While he was campaigning eastwards Darius was assassinated.

Alexander next marched into Afghanistan and Transoxiana, partly to pursue a rebellious general, and thence to Samarkand and Alexandria Eschate (present-day Leninabad). There were further revolts until

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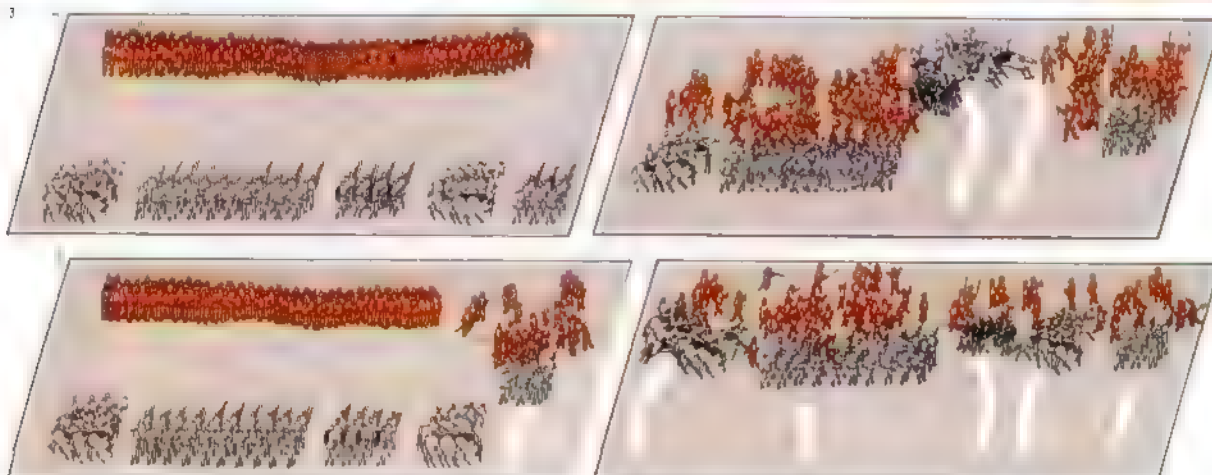
See also
The Pharaohs
The Greeks
The Hittites



1 The battle of the Hydaspes (Jhelum) in the Punjab, shown here on this coin, was one of Alexander's most skillfully planned and executed victories, greatly extending his empire. His tactics were greatly influenced by the horse's natural fear of the elephant. The defeated Indian ruler Porus became an ally. During this battle Alexander's famous charger

Bucephalus died and was given a full imperial funeral.

2 This mosaic from Pompeii, copied from a painting by Philoxenus, shows Alexander commanding his army against the Persians, under Darius, at the Battle of the Issus, 333 BC. Darius fled, leaving his queen and family together with a vast amount of wealth to the Macedonians.



3 Alexander placed the phalanx at the centre of his battle order [A]. Fighting was initiated on the extreme right [B]. At the right moment Alexander would lead his companions, supported by the household infantry, in a charge that penetrated the gap in the enemy line [C]. As the enemy tanks broke, he wheeled his companions to take the flank to recover the lost and centre of his army. As the enemy retreated, he pressed home his advantage with his full force [D].

328 BC, the year of his marriage to Roxana, daughter of the king of Bactria, a marriage that seems to have been symbolic of East-West fusion. At the same time his absolutism increased. His murder of his commander and friend Clitus in a drunken brawl angered the Macedonians.

In 327 BC he led his men into India, one army marching through the Khyber Pass while the other, which he commanded fought its way through Swat. The final battle was fought on the Hydaspes (Jhelum) [1] after the defeat of Porus, an Indian prince Alexander's soldiers refused to go farther.

Return from the East

On his return to Susa, Alexander found a state of corruption and oppression. He set about a ruthless campaign of punishment. This was followed by a scheme for settling Greeks and Macedonians in Asia and Asians in Europe as part of a plan for fusing the two regions. A more immediate project was the marriage of Alexander and Hephaestion (his closest friend and lover) to two of the daughters of Darius, while another 80 Macedonian

officers married daughters of Persian nobles.

Asian soldiers had already been trained in Macedonian military methods and were now admitted to the army, others were recruited to the cavalry and Persian officers to the royal bodyguard. In 324 BC his 10,000 Macedonians, already disturbed by the new army policy, mutinied. Alexander ordered 13 of their leaders to be killed on the spot, appointed more Persians and Medes to Macedonian posts and transferred 10,000 Macedonian names to what the Europeans considered barbarian regiments. The Macedonians then set off on the return march.

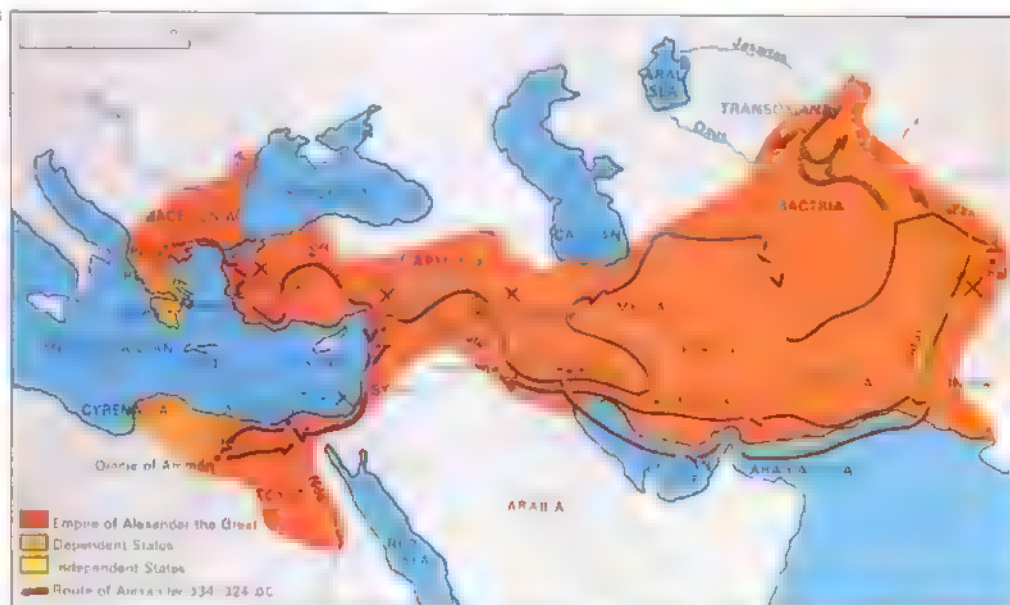
Plans were now made for a campaign into Arabia, but Alexander developed fever and on 13 June 323 BC he died, not yet 33 years old. His empire began to disintegrate almost at once as the various regional commanders assumed the titles of kings in their own right. Although Alexander was renowned primarily for his military conquests, his most enduring achievement was to extend the influence of the Greeks to a vast area of the ancient world, and to widen the basis of Hellenic culture through contact with the East.



Alexander is wearing the ram's horn head dress on the coin.

4 The extent of Alexander's campaign over 14 years explain the rapid collapse of his empire after his death. There was no consolidation and the vast distances precluded real integration.

5 A picture from the Flemish Alexander Romance (a 13th century legend cycle) shows him preparing to fly in a basket attached to two griffins, which are to be lured upwards by a lump of meat on a stick. Another illustration from the same source shows him in a glass submarine, an idea that also occurs in a Malay story depicting Alexander. Both pictures imply his dominion over land, sea and air.



6 The Alexander legend is told in many languages from Middle English to Malay, throughout the countries of Europe, the Middle East and India. He is depicted in many forms - Burgundian king, Armenian horseman, Persian prince (Qutub al-Din in the 13th century) had his own features depicted as Alexander's. In the Muslim world he was held to be a pious follower of Islam who fought pagans and spread the faith. He was identified with the two bearded One mentioned in the Koran, almost a thousand years after his death. In this Persian painting (1595-6) he is being asked to spare pagan gods.



Greek science

The earliest stirrings of Greek science are found in the eighth century BC in the Homeric poems with descriptions of the stars and an unusual concept of the universe as a sphere [1]. Other civilizations had been content with hemispherical skies but it was the Greek love of symmetrical shapes that led them to the concept of a spherical universe.

Greek studies of the universe

The first Greek scientific men whose names are known – Thales, Anaximander and Anaximenes – came from the eastern seaboard of the Aegean and lived during the sixth century BC. Thales accepted the spherical universe and believed that water was the basic substance from which everything was formed. Anaximander, who thought some indefinable substance (not water) was the basic materia, taught that the earth was cylindrical in shape and like Anaximenes, he believed the heavenly bodies were holes in a dark sky through which shone a surrounding fiery zone. The most important sixth-century scientist was Pythagoras, best known for his proof of the relationship between the sides of

any right-angled triangle. He also investigated musical harmony, which led him to suggest that there was a divine relationship between numbers, music and the universe.

Significant developments in the fourth century BC followed the establishment by Plato (c. 427–347 BC) of an academy in Athens, where he laid great stress on the mathematical nature of the universe. His pupil Aristotle (384–322 BC), the greatest scientific philosopher of antiquity, set up his own academy – the Lyceum – also in Athens. He adopted the theory, first formulated by Empedocles in the fifth century BC, of the Four Elements – earth, air, fire and water – as the fundamental components of all matter. Astronomically, Aristotle discussed whether or not the earth moved in space but, on the basis of the available evidence, he tended to favour a fixed earth in the centre of the universe. Aristotle also discussed the nature of change and especially of motion, as well as teaching that there was a fundamental difference between celestial and terrestrial bodies. The former were eternal and changeless, and all change, he believed, must occur below the

sphere of the moon, the nearest body to the earth. He also rejected the idea, proposed in the fifth century BC by Democritus and Leucippus, that the universe is composed of separate and indestructible atoms.

Investigations in the pure sciences

Although it was Aristotle's views about the physical universe that exerted the most profound influence on science for the following 2,000 years, he was at his best in the biological field. He carefully described the compound stomach of ruminants such as the cow and the habits of bees and the diseases they suffered; he studied the placental dogfish that reproduces its young live rather as a mammal does and made a general study of sexual reproduction [2]. He also studied plants, although it was his friend and disciple Theophrastus (c. 372 – c. 286 BC), who was the founder of botanical science. Aristotle emphasized the important notion that there is a continuous order of being stretching from inanimate matter up to man.

Following the claim by Eudoxus (c. 408 – c. 355 BC) that heavenly bodies moved

CONNECTIONS

See also
The Hellenistic
World



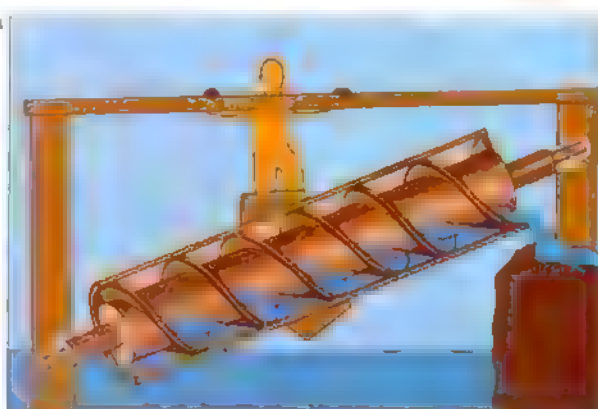
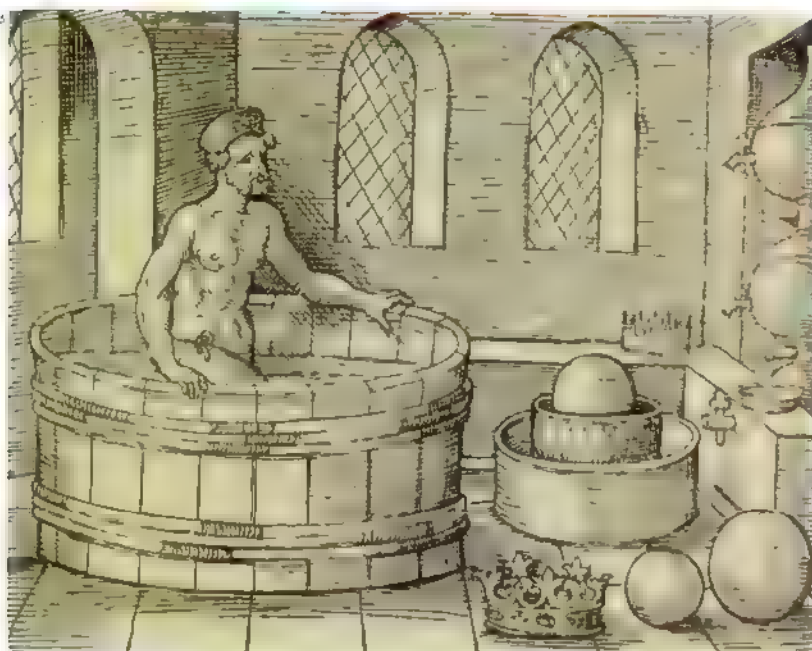
1 A Victorian illustration of the Homeric universe shows a disc-shaped earth with Greece as its centre floating on water and surrounded by the sphere of the universe. The sun is rising in the east and the moon is shown high in the sky. Most Greek philosophers thought that the sun, moon and planets all orbited the earth; their innovative idea was that the heavens were an all-embracing sphere, a more perfect shape than a dome or hemisphere. There was no evidence to support this view of the universe; it was adopted purely for aesthetic reasons. But the belief that the earth was at the centre of the universe remained until Copernicus' work in the 16th century.



Aristotle's catfish (*Pseudurus aristotelis*)

2 Aristotle's biological observations include notes on bees and fish. He discovered that the male catfish takes upon himself to guard the eggs of the female until the young hatch. Since other

catfish species behave differently this was questioned until the 1850s, when Aristotle was proved correct by Louis Agassiz, who found that the North American male catfish (*Ameiurus*) does the same.



3 Archimedes in his bath (from a 16th-century engraving) is a reminder of his discovery that a body displaces fluid equivalent to its volume. This means that, regardless of shape, objects of equal density and weight displace the same

quantity of fluid. Archimedes used the new principle to determine if a crown made for the king of Syracuse was of unalloyed gold. The crown displaced more water than the same weight of pure gold, proving that it contained other metal.

4 The Archimedeal screw for raising water may have originated before Archimedes but was attributed to him. Driven by a handle or foot pedal, the spiral screw rotates in a cylinder, drawing the water upwards.

in circular orbits round the earth: the third-century astronomer Aristarchus (310-230 BC) suggested that the sun, not the earth, was the centre of the universe and discussed the sizes of the sun and moon. But his theory of the universe proved unacceptable. A century later, Hipparchus (190-120 BC), the greatest observational astronomer of antiquity, discovered the precession of the equinoxes, compiled a catalogue of stars, calculated solar eclipses and had an advanced theory of the sun's motion. The third century BC is notable also for the mathematical physics of Archimedes (c. 287-212 BC) [3] and the establishment of the library and museum of Alexandria. There, for the next 500 years, research of an advanced kind was carried out: mathematics flourished with Euclid (fl. c. 300 BC) [Key] and Apollonius (fl. 250-220 BC), who was noted for his work on astronomy and conic sections. Eratosthenes (c. 276-194 BC) estimated the earth's circumference to within 400 km (250 miles).

In the second century AD the astronomer Ptolemy (c. 90-168) produced his remarkable *Almagest*, a digest of Greek astronomy,

and his *Geography*, using longitude and latitude as well as his own stereographic map projection [7]. The medical lore of Hippocrates of Cos in the fifth century BC was developed by Herophilus and Erasistratus in Alexandria two centuries later [6]. They dissected the human body, distinguishing veins from arteries, sinews from nerves, and generally laying the foundations of anatomy.

Applied sciences and the study of machines

The compound pulley was known in Aristotle's time and the screw for raising water was invented in Syracuse by Archimedes. Much Greek technology, however, was also developed at Alexandria where, in about 200 BC, Ctesibius designed water clocks [5] and a force-pump, and in the first century AD Hero not only developed the study of machines and pneumatic devices (although he failed to find practical uses for his inventions) but also improved surveying techniques. The discovery of a mechanically geared 'computer' [8] for astronomical calculations suggests that Alexandrian technology had a wide influence.



The great basic text on Greek geometry

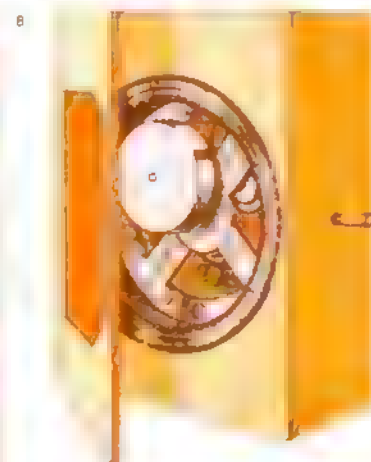
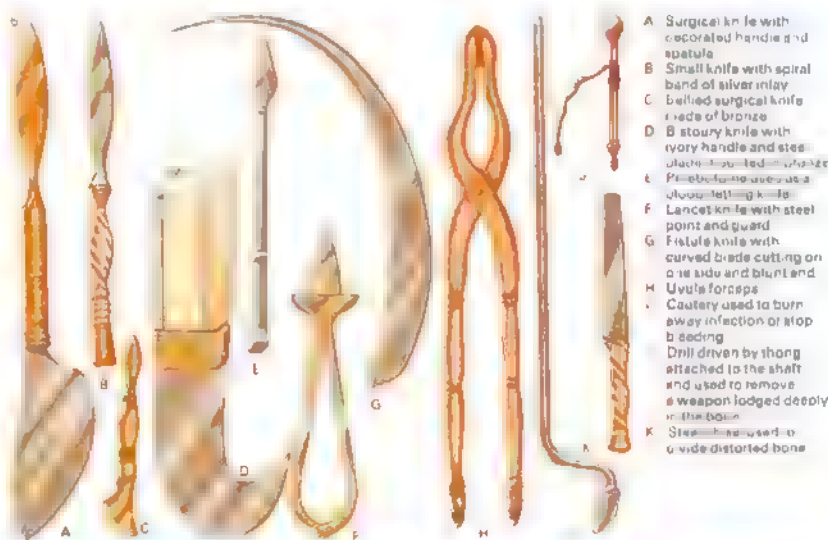
was Euclid's *Elements*. This page is

from the first printed edition 1482



5 The Tower of Winds in Athens is surrounded at the top by sun dials. It once held a large clepsydra (water clock) based on a design by Ctesibius. This had an elaborate siphoning system to maintain a constant water pressure so that the clock was reasonably accurate.

6 Greek medicine had a long and notable history; psychological medicine was practised in healing temples, as were herbal treatment and surgery. A miscellaneous collection of Greek surgical instruments shows among other tools forceps and scalpels of various designs.



7 This map of the world published in 1486 was based on one drawn by Ptolemy in Alexandria some 1,200 years earlier. That map drew on evidence from travellers, especially the Greek explorer Pythas of the 4th century BC.

8 A Greek astronomical 'computer' was discovered in 1900 in a wreck dating from about 65 BC off the island of Anikythera and is shown in reconstruction here. It contained an extremely elaborate system of internal gears.

Bronze and Iron Age Britain

The end of the Neolithic period in Britain in the second half of the third millennium BC, was marked by major social and technological innovations. Collective burial under long barrows was replaced by a single burial under round ones; the first metal artefacts, of pure copper or a copper-arsenic alloy, are found in the burials, and a new type of pottery, known as the Bell Beaker [1], is found in burials and settlements throughout Britain. Traditionally these burials have been interpreted as marking the arrival of the so-called "Beaker people", metal prospectors from Europe. It is now thought, however, that the changes demonstrate internal developments in society rather than the arrival of a new people. The Beaker and copper dagger, already in use in Europe, were prestige objects for display by the increasingly important chiefs.

The Wessex culture

The Beaker period is sometimes described as the Copper Age, because of the predominance of copper tools at that time. In the full Early Bronze Age that began in the first half of the second millennium BC, the most not-

able feature was the emergence of the so-called Wessex culture in southern England. This was characterized by single burials under round barrows of specialized forms [2]. The rich grave goods that accompanied the burials included objects of gold [3], amber, shale and faience as well as the more usual bronze, flint, bone and pottery.

The chieftains of that time, now perhaps united under a "paramount chief" holding sway over a larger area, may have been responsible for the last main period of construction at Stonehenge with its massive sarsen stones (it may possibly have been built earlier, in Beaker times). There is continuing controversy whether the Wessex culture was introduced to Britain by intrusive overlords or whether it arose locally, and also whether there was contact between the Wessex culture and Mycenaean Greece [3].

The end of the Early Bronze Age, c. 1400 BC, saw a hiatus in sepulchral and religious development and a notable geographical shift in the centres of wealth. Wessex and southwest Wales ceased to be as rich as before and new centres of wealth arose in

north Wales, the Thames Valley and the Fens. At the same time the old sky-oriented religion that had continued throughout the Early Bronze Age (as continuing activity at Stonehenge demonstrates) seems to have died out. In its place there is evidence, from the Middle Bronze Age onwards, of a new water-dominated religion; fine metalwork was put in rivers, lakes and hogs, presumably as offerings to water gods.

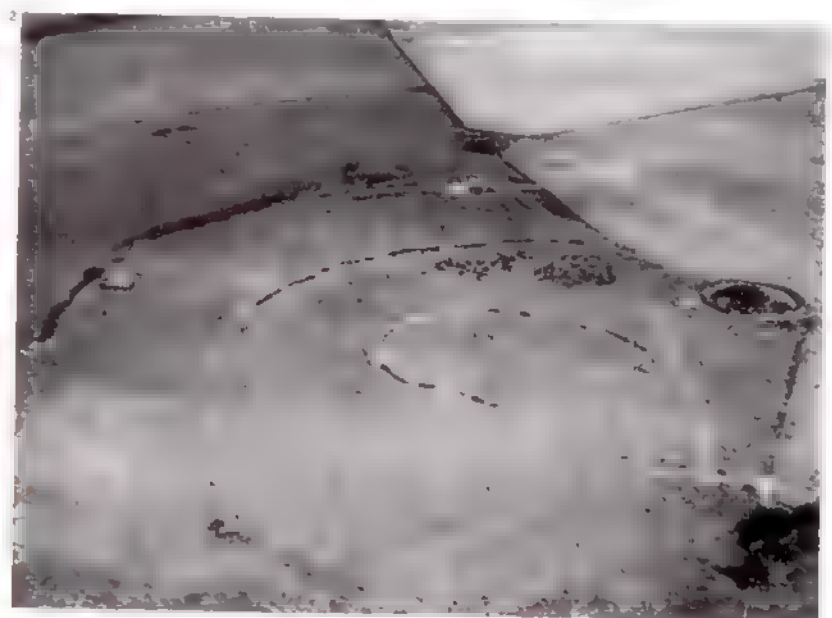
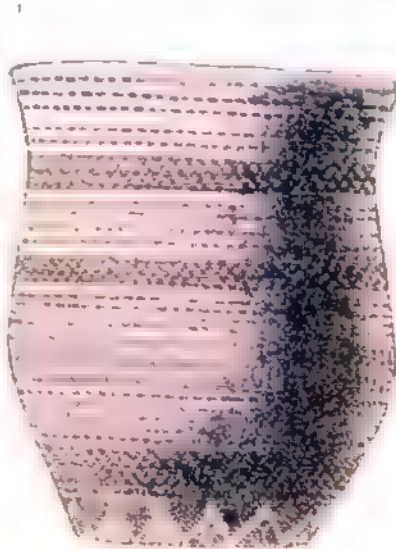
The later Bronze Age

Few rich burials have been found from the Middle and Late Bronze Ages, the normal rite was now cremation, often with an urn but without grave goods, under a barrow or in a flat cemetery. However, many hoards of metalwork date from that time. These demonstrate an increasing quantity of bronze in circulation and the growing mastery of metalworking techniques achieved by the bronzesmiths. They also indicate the development of new forms of tools and weapons: palstaves, rapiers and sickles, for instance, appear in the Middle Bronze Age, whereas in the Late Bronze Age hounds, after

CONNECTIONS

See also
Age of the

1 Bell Beakers were a distinctive type of pottery introduced into England in the late 3rd millennium BC and buried as prestige objects with chieftains. These pots were drinking vessels made in a fine hard ware with a burnished surface, varying in colour from red to dark brown or black. Their ornament was impressed in horizontal zones. Bell Beaker pottery has been found widely distributed in central and western Europe, and is especially common in parts of Spain and Portugal, southern France and Brittany, Czechoslovakia, Germany and the Low Countries. This distribution may reflect the movement of people prospecting for and trading in metal ores.

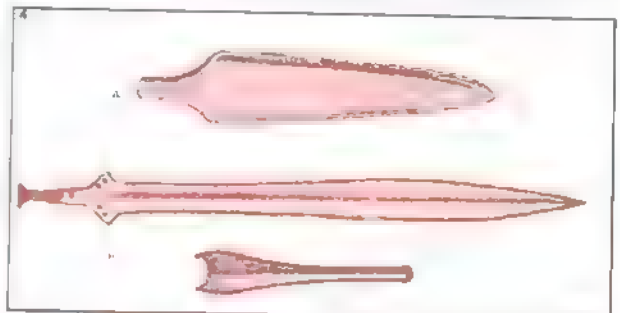


3 This gold cup, found at Rillaton, Cornwall, is the best known of the many goods of rich and rare materials that have been found in the round barrows of southern Britain, left in the graves of the wealthy aristocrats of the first half of the 2nd millennium BC. Amber and faience (a blue or turquoise vitreous paste made from a mixture of sand and clay) have also been found. This cup has been compared with vessels in the contemporary Shaft Graves at Mycenae, as have other gold and faience objects from the barrows of the Wessex culture. But these objects could have been made in Britain without the benefit of Mycenaean example. There is no other evidence for strong Mycenaean influence in Britain.

2 Burial in barrows was common in the late Stone and Bronze Ages. The Neolithic people practised collective burial in monumental tombs with wooden or stone chambers under long or round mounds. Single burial under

a round mound began at the end of the Neolithic period. This rite continued through the Bronze Age and cemeteries of these barrows, such as these at Windmill Hill, Wiltshire, are common in many parts of Britain.

The practice of single burial, accompanied by grave goods including some made of exotic and rare materials, suggests a changing emphasis in society with stress now on the importance of the individual.



4 More efficient tools and weapons were developed during the Bronze Age. In the Early Bronze Age the chief personal weapon

was the dagger (A) which lengthened into the full length sword used for thrusting in the Middle Bronze Age. It was replaced by a

slashing sword with a strong hilt and leaf-shaped blade (shown with a chape from its scabbard) only in the Late Bronze Age [8].

c. 1000 BC, there are socketed axes, true swords [4] and beaten metal objects, including shields and vessels. From the Middle Bronze Age onwards settlements are known, these include embanked enclosures and after c. 1200 BC the defended hilltop settlements known as hill-forts [7]

The first use of iron

The introduction of iron technology was not a sudden event. Some iron objects were occasionally used as early as c. 700 BC, but iron did not come into general use for another 200 years. The main factor in the development of the Iron Age was the continuing culture of the Bronze Age. The principal types of settlements – farmsteads, villages and hill-forts – all developed from Bronze Age antecedents, as did the round post-built house, which is one of the main Iron Age dwelling forms. However, there was certainly trade with Europe and, later in the Iron Age, there were also two limited movements of people from continental Europe. The first was a migration from France that brought the practice of chariot

burials [6] into Yorkshire perhaps as early as the late fifth century BC. The second was a movement from northeast France into south-east England in the first century BC. This can be identified with a historically known people, the Belgae, who were described by Julius Caesar (c. 100–44 BC).

Insular Iron Age communities were gradually developing an urban way of life during the second half of the first millennium BC, but the Belgae introduced a more organized urbanism already developed in Europe. They lived in large defended settlements known as *oppida*, which can be regarded as true towns, they were organized on a tribal basis and society was highly stratified, with a wealthy aristocracy at the top and slaves at the bottom, separated by a “middle class” of craftsmen and by the bulk of the peasantry who were engaged in primary production. They used the potter’s wheel and they minted coins, both skills previously unknown in Britain. They traded abundantly with their Romanized relatives in Gaul and were partly Romanized by the time of the Claudian invasion of AD 43.



Decorated bronze mirrors are among the finest products of British craftsmen in the Early Iron Age and they must have been highly prized by their aristocratic women owners, with whom they were sometimes buried. This ex-

ample, dating from the early 1st century AD, was found at Desborough, Northamptonshire. Its reflecting surface was made of polished bronze and its back was decorated with intricate patterns. The engraved area was probably set out with

a circular compass. The mirror was then engraved and the filling of parts of the pattern completed by chasing. Wear on the inside of the ring on the handle suggests that the mirror was suspended when it was not being used.



6 Dartmoor was an attractive area for prehistoric settlement and because it has been little exploited since early times it has many sites available for archaeological exploration. Stone was readily available

there for use as a building material, and so the footings of walled huts and of enclosures are still visible, as in this example at Grimspound. Few sites have yielded clear dating evidence but most were prob-

ably built in the Bronze Age. The huts are circular and vary in diameter from 3m (10ft) to 12m (39ft). Only the footings were of stone, the rest of the structure was timber, thatch and turf. The buildings were conical in shape



6 Chariot burials have been found of some of the warrior aristocrats of the Iron Age in Yorkshire. In this example from Danes Graves, two bodies were buried in a crouched position on the floor of a rectangular grave pit under a round barrow. With them were the remains of a dismantled chariot and several items of harness fittings. In other burials the chariot was buried intact and on one occasion two horses had been buried with the vehicle. This special type of burial does not occur elsewhere in Britain but is well known in continental Europe. It may have been introduced by settlers from France, perhaps from Burgundy, where there are close parallels with the Yorkshire burials.



7 Hill-forts, or fortified settlements on hilltops, were first used in the later part of the Bronze Age, but most of them belong to the Iron Age. This example, Badbury Rings, Dorset, had a long development and may have lasted into the Roman period. The area enclosed is c. 7 hectares (17 acres), and is surrounded by two substantial banks and ditches, as well as a third, much slighter one outside them. One of the entrances turns inwards and the other has additional outworks. Hill-forts that have been excavated have revealed continuous intensive occupation, organized internal planning and some public buildings and provision for craftsmen. These hill-forts can be considered the first true urban settlements in Britain.



8 This large chalk-cut horse is situated just northwest of the hill-fort of Uffington Castle, Oxfordshire. It measures 110m (360 ft) in length and is a maximum of 40m (132 ft) in height and has been cut down to the natural chalk in broad terraces. Such hill

figures are impossible to date accurately, but on stylistic grounds this horse is usually thought to have been cut in the late pre-Roman Iron Age, and to have been the first hill figure in Britain. But some scholars give it a much later date. Its dramatically

curved and attenuated form resembles horses portrayed by Iron Age craftsmen in other media, such as those found on coins or on wooden buckets decorated in sheet bronze known from Aylesford and Marlborough. It may have been the symbol of a local tribe.

The Celts 500 BC-AD 450

From the beginning of the second phase of Celtic culture, known by archaeologists as La Tène, our knowledge becomes much more detailed. The archaeological record is filled out by written accounts that give a fuller, more detailed identity to peoples previously distinguished by the remaining artefacts of their material culture from 500 BC to 500 years of this period of European history, the story is basically that of the astonishing growth and development of the Celtic world and its gradual decline with the rise of Rome and the establishment of the Roman Empire.

The development of Celtic culture

The term La Tène is applied to this period of Celtic culture that extends from about 500 BC and is the period of their greatest attainments. Like Hallstatt for the first phase of c. 700–c. 500 BC, the name La Tène is taken from the name of a major archaeological site. In the nineteenth century a large variety of religious offerings [3] were found at La Tène on the shores of Lake Neuchâtel in Switzerland, and these findings, like those discovered at Hallstatt, testify to the changes in the

equipment and way of life experienced by the Celts. As with Celts of the Hallstatt culture, their altered lifestyle was developed more or less simultaneously, and with great rapidity, over much of Europe.

The Celts were still highly aristocratic in their social organization, kingship was common among the tribes and below the king were the warrior aristocracy and freemen farmers. The Celts had a highly evolved religion [5, 6] with the powerful priesthood – the Druids – which itself formed a major class. In addition there were slaves.

The Celts had taken to using a light two-wheeled war chariot pulled by two small ponies, and the artistic skill of their craftsmen in metalwork, always remarkable, had advanced to new heights. At the same time, a revolution had taken place in their art style. The old Urnfield and Hallstatt patterns, the fine animal art of the Scythians, Greek foliage motifs, and elements from styles formed much farther east had been merged into a brilliantly original art – subtle and elusive, and full of magical significance. From 500 BC this new aspect of Celtic culture

spread rapidly, and by 300 BC it was dominant from the Baltic to the Mediterranean and from the Black Sea to the Atlantic.

Celtic society and warfare

The early Celts did not make written records; they recorded their history orally. However, unlike the earlier Hallstatt culture, that of La Tène is nevertheless well documented, much of our knowledge about the daily life of the Celts has been provided by contemporary Greek and Roman writers.

To them the Celts were tall, muscular and fair-skinned, qualities most attributable to the warrior class and reaching their ideal in the *gaesatae* ("spear-bearers") who were a highly specialized class of Celtic warriors.

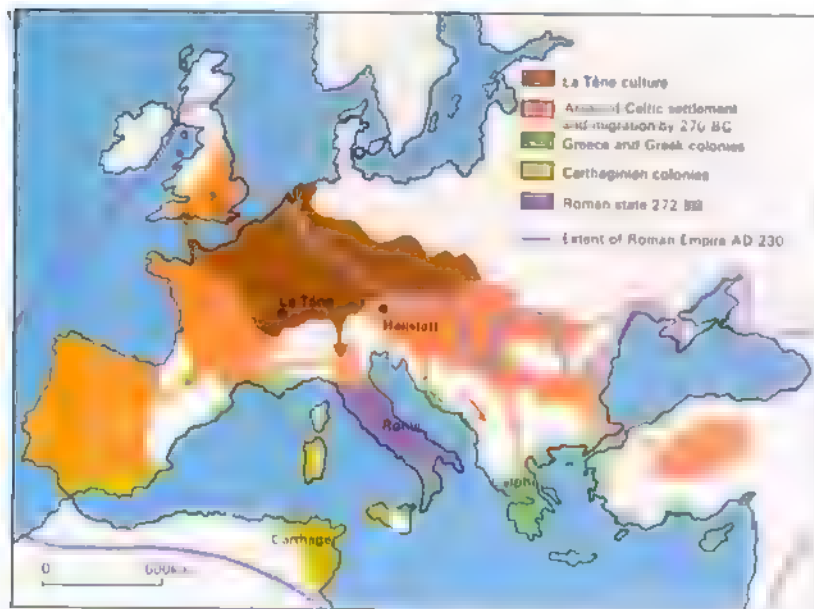
Warfare was an essential part of the Celtic life. Armed with highly efficient iron weapons the Celts swept through central Europe in the fourth and third centuries, overcoming their Etruscan neighbours in about 400 BC, sacking Rome in 390 and plundering the shrine at Delphi in 279.

But the Celts were not only warriors. They achieved a high level of material

CONNECTIONS

See also

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1 La Tène, a key archaeological site in Switzerland, is the name given to the period of Celtic culture in Europe that lasted from approximately 500 BC until the time of

Roman expansion during the 2nd and 1st centuries BC. As the map shows, by about 270 BC the Celts had migrated into France and the Iberian Peninsula, parts of the British Isles and

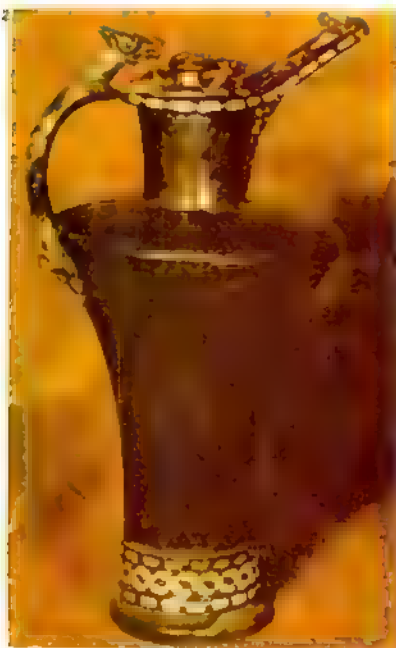
to some extent eastwards into central Europe. From this time, however, they gradually lost ground to Rome. By the mid 1st century BC the Roman dominance was assured.



4 Warfare was the main influence on Celtic architecture. Fortified dwellings built for defence were common. One such was the crannog (A). Found mainly in fre-

land, crannogs were artificial islands built of timber, clay, peat and brushwood. Dwellings were constructed on top of the island. This crannog, from the La Tène

period, is in County Antrim. The most famous Celtic fortifications were the hill-forts (oppida) (B). This hill-fort, seen from the air, is in Somerset.



2 This bronze wine flagon is one of a pair from Basse-Yutz in Lorraine. Inlaid with coral, it demonstrates ornaments that contributed to the subtlety and charm of La Tène art. The wolf-like animals forming the handles and on the lid link these pieces with the Bronze Age cult of water birds.

3 This silver-covered iron votive torc (bracelet) weighs about 6kg (13 lb). Both ends have sacred ox heads each with its own twisted necklace. Too heavy to be worn it was probably hung on a stone or wooden divine image. It comes from Trichtingen, Württemberg in Germany.



civilization using their mastery of iron working to open up new land and develop agriculture. Their economy was based on mixed farming – the cultivation of grains and vegetables, and cattle raising – and on trade. These two aspects – expansionist warfare and domestic settlement – can best be seen in their hill forts (*oppida*), the remains of which are scattered throughout Europe. Originally built as hill-top forts for defence only, they varied considerably in size, some developing into major towns. One such was the *oppidum* at Bibracte near Autun in France which covered more than 130 hectares (330 acres) and had houses, streets and possibly shops.

The rise of the Roman Empire

It was the rise of Rome – a little town on the bank of the Tiber – into a great, organized civilization which, by 225 BC and after bitter fighting, defeated the Celts at Telamon in Italy, and took the first major step towards subduing them forever. Even after actual subjugation, the Celtic traditions and language continued to survive but in forms modified to agree with the needs of Roman

institutions. Only Ireland and much of Scotland escaped Roman domination in the British Isles. It was there that the old Celtic traditions and way of life survived and were written down by the scribes of a Celtic Church, of the fifth century AD and deeply sympathetic to the heritage of its people.

The Roman Empire lasted into the fifth century. But from the third century it was endangered by increasingly powerful barbarians. It was these barbarians from the north, east of the Rhine and from the vast steppelands of the eastern continent who during the fifth century AD, eventually wrecked the Roman Empire and laid the foundations of feudal Europe. The people of the Roman Empire had become used to living in towns and obeying a single, absolute government. The barbarians knew no such control, living in tribes without towns and led by chieftains who gained their power through the dictates of tribal custom and tradition. These pagan peoples struck deeply at the growing Christian Church in Europe, a Church to which Celtic missionaries from Ireland were to contribute profoundly.



A bronze figure of a dying Gaul was recovered from the hill fort at Alesia, Alesia, the young Celtic leader king and commander of all the Gallic confederates, made his last great stand against Julius Caesar in 52 BC. For a time he managed to repulse Caesar and cause him heavy losses, but after a final bitter battle he was defeated. In spite of the dignified and noble way he surrendered in order to save his fellow countrymen, Caesar held him prisoner in Rome for six years and then ordered his brutal execution.

5 The god Cernunnos.

The 'Horned One' figures as the Lord of the Wild Beasts on one of the inner plates of the great votive silver cauldron found at Gundestrup, Jutland, Denmark. He wears the antlers of a stag.

6 The cock. As he is believed to avert evil with its crow and thus in Britain it was considered unlucky to eat it. The peculiar three horns on the bull (B) conveyed an idea of its supernatural qualities as the number three held religious significance.



7 Belief in the 'evil eye' goes far back into Celtic minds. The eye on this stone figure of a boar god dates from about the 1st century BC.



8 An early example of La Tène art style is shown here. The bronze plaque from a double burial at Waldalgesheim (c. 325 BC) shows a mask-like face, a torques round the neck and on the head traces of a leafy crown which is a token of divinity. The hands are raised in the Celtic attitude of prayer. This bronze is one of a pair.

9 Bronze decorated mirrors are among the most splendid pieces of Celtic art. This example, from a woman's grave at Brdip, Gloustershire, is pre-Christian.



The Etruscans

Far less is known about the Etruscans than about their contemporaries, the Greeks and Romans. The reason lies mainly in the total loss of their literature, which leaves them from our point of view inarticulate. But whereas their writings consist almost solely of brief funerary inscriptions, their other material remains offer much greater scope for archaeological research.

Origins of the Etruscans

The long-standing controversy over this people's origins seems at last to be dying down. Ancient records began in Herodotus declared that the Etruscans sailed from Lydia in Anatolia to colonize a new territory in the west, and Dionysius of Halicarnassus argued that they were natives of Italy. Today both views are regarded favourably, and both are at least partly right.

Certainly the argument for continuity between the Villanovan settlements in northern Italy (c. 1100-700 BC) and cemeteries of the ninth century BC and the Etruscan cities and cemeteries of the early seventh century BC on the same sites is

stronger than ever. Most of the population and much of the culture can be traced beyond this, back into the Bronze Age. Conversely, at several stages new ideas and cultural traits from abroad could well have arrived with bands of new immigrants.

The result was a great flowering of culture in the seventh and sixth centuries BC, which built on local foundations, themselves supported by the wealth of the metal resources of Etruria (present-day Tuscany) [1], but strongly influenced by Greece and many other east Mediterranean lands. Indeed this variety provides a strong argument against Herodotus' story of a homeland in Lydia.

Etruscan civilization as a whole is puzzling. The general impression is very Greek. Only on closer inspection of the details does it become apparent that, however Greek in inspiration, everything has been transmuted and absorbed. This, and the grafting on of other Asiatic ideas, like divination and tumulus tomb building, and the development of purely local traits like the high-quality black *bucchero* pottery, enable historians to think of Etruscan civilization as

something in its own right, not merely a provincial version of the civilization of Greece. Yet politically the two peoples appear to have been bitter enemies, Etruscan history having as its constant theme the attempt to bar the Greeks from the Tyrrhenian Sea. By one sea battle the Greeks were expelled from Corsica in 535 BC, at the height of the Etruscan political domination.

The Phoenicians played a part in this story too, as intermediaries between Etruria and the Orient. Here political relations were more cordial, Etruria and Carthage being often in alliance against their common enemy, the Greeks. At Pyrgi, a port of Cerveteri, a dedication was found to Uni (Juno) - the goddess Astarte - engraved on gold plates in parallel texts, one in Phoenician, the other one in Etruscan.

Clues to language

The tablets found at Pyrgi proved of great help in advancing our knowledge of the Etruscan language, the most important unifying link between the Etruscan peoples. Since they had adopted the Greek alphabet

CONNECTIONS

See also
Roman
Empire
Ancient
Greece
Phoenicians
Carthage

1 The Etruscan home territory lay between the Arno and the lower Po. It was there that the distinctive civilization arose and reached its highest development. At its widest c. 535 BC Etruscan

power extended to the Alpine foothills and south to the Gulf of Salerno. But this was not an empire, instead it was a loose federation of independent city states with no common front.

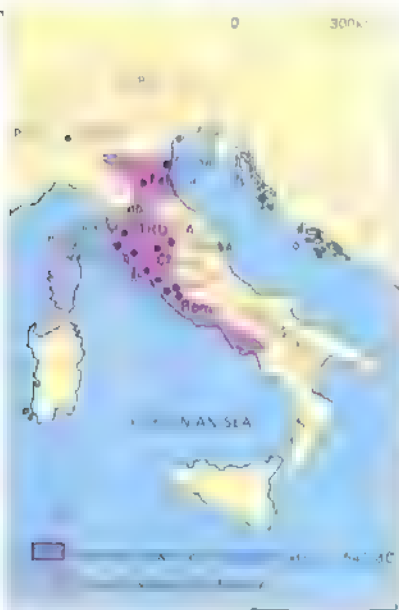
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2 Bronze cists (caskets) held women's personal possessions: jewellery and toiletries. They were engraved with mythical scenes and were fitted with cast feet, hands and ornaments. This fine example from Paestum (c. 300 BC) shows an engraving of Bellerophon holding Pegasus.

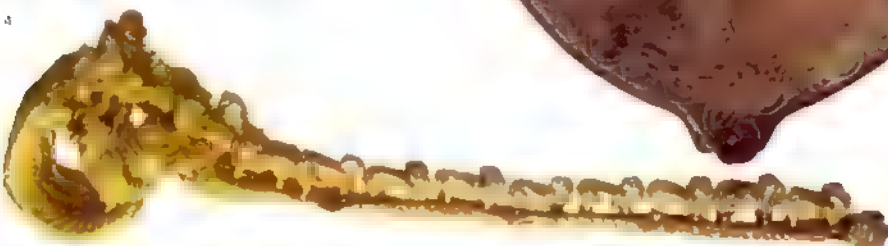
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3 Mirrors of polished bronze assisted Etruscan ladies at their toilet. The reverse side of mirrors such as this (c. 540-530 BC) was often engraved with mythical scenes - in this example Orpheus is crossing the sea in an incised drawing. Mirrors were objects commonly buried with the dead.



4 Jewellery reached a high level of development with the Etruscan civilization. The Etruscans were particularly skilled goldsmiths and a number of superb pieces decorated with fine

granulation have survived. This fibula or safety pin dates from between 700-600 BC. It is an exquisite piece, demonstrating the quality and originality achieved by the Etruscans.



5 The Apollo of Veii, together with figures of Mercury, Hercules and Latona, strode along the roof ridge of the Portonaccio temple at Veii. The sculptor was Vulca, who modelled Apollo in terra cotta about 500 BC. Apollo has a fright

ening aspect, not in the least softened by his smile, and is different from the Apollos which the Greeks have left. The Etruscans clearly owed much to the Greeks, but they translated any borrowings into the Etruscan idiom.

with little change, there has never been any great problem in deciphering their writings. Translating them has proved much more difficult because all attempts at identifying the language with a known one have failed. It seems to have been the only survivor of those tongues spoken before Indo-European was introduced into the area. Little by little, however, the scholarly competence in translation increased, beginning with such tomb inscriptions as "X son of Y, aged Z years". But the few longer texts are obscure ritual documents, and yield so far little more than the general drift. The longest of such texts so far discovered was written on linen.

Etruscan culture

United by language, the Etruscans were less in form or culture. There are clear differences (as in tomb architecture) between the Etruscan cities, mirroring their political independence. All, however, give a picture of an energetic, happy people with a bold and attractive art. Although much of the evidence comes from tombs (6, 7, 8), it is by no means a sombre picture. Their temples and cities too

were architecturally exciting, and their civil engineering of a high order. A ship canal at Cosa, the channelling of streams below ground to prevent soil erosion, and their practice of tunnelling rivers below roads instead of building bridges over them demonstrates these skills.

What survives from Etruscan civilization is to be found in the romantic ruined sites and cemeteries, and vast museum collections hoisted from these. But their place in history is assured by their contribution to Roman civilization. The end of the Etruscans probably came in the fourth century BC, because they had failed to present a common front and so fell individually to the Romans. However, the Romans' origins lay beneath the shadow of their rich and powerful neighbours and enemies. Much of the Greek civilization they adopted came to them not only through Etruscan hands but in Etruscanized form. What was non-Greek in Roman life was often pure Etruscan, for example, the realism of their portraiture and their religious practices and divination. Many Roman families had and were proud of, Etruscan origins.



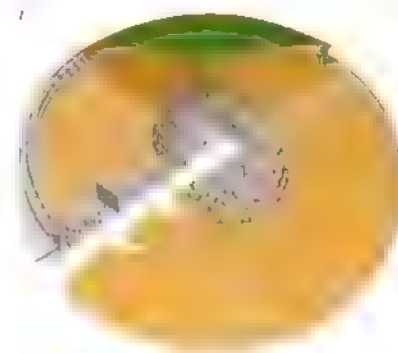
This married couple is sculpted in

life size on the lid of a terracotta

sarcophagus from Cerveteri (Caere)



6 The Tomb of the Reliefs at Cerveteri is carved in the solid rock to represent a room in a house, with raftered ceiling supported on pillars, proto-Ionic capitals and bed niches in the walls. A series of funerary beds, each with two pillows, some even with a footstool, and slippers awaiting their owners, is then added in stucco. Above the niches are displayed pieces of armour and weapons in relief – shields, helmets, leg armour, swords. The central pillars are decorated with a wide variety of tools and implements used in day to day life. This tomb is the only one of its kind.



7 Types of tombs differed from city to city. At Populonia a corbel vaulted chamber of stone was covered by a hemispherical barrow with a stone retaining wall. The Tomb of the Chariots, shown here, contained two chariots filled with

bronze and iron decoration on ivory, and a bronze trumpet as well as gold jewellery and fragments of weapons and armour. The tomb dates from the 7th century BC. Many tumulus tombs were also erected at Cerveteri.

8 The Tarquinian tomb type was a rectangular chamber cut in the rock and approached by a sloping ramp. The chambers were then plastered and painted with vivid scenes of the highest beauty and significance. On the end wall of the Tomb of Hunting and Fishing (c. 520 BC) the funeral feast occupies the gable with a frieze of mourning wreaths below. Fish leap about the men in their boat, and a slinger ashore attempts to bring down one of the many gaily coloured birds that cover the ceiling. The funeral banquet was a common motif, coupled in other tombs with frescoes that pictured dancing and athletic contests in honour of the dead.



Early Rome: the kingdom and the republic

The origins of the city that founded the mighty Roman Empire are obscure. The traditional account, recorded by Livy, is that Romulus and Remus [Key] founded a city on the Palatine Hill [2] on 21 April 753 BC. At least the date agrees with the archaeological evidence, which shows that shepherds settled on the Palatine about the middle of the eighth century. They joined with other communities in the area in the early sixth century to establish a city around a site that later became the Roman Forum but which had for a period been used as a cemetery [1].

Of the six kings said to have followed Romulus the first three were almost certainly legendary, but the fourth, Tarquinius Priscus, was Etruscan. His reign marks the beginning of a period of Etruscan control.

Expansion under the republic

Etruscan rule and the monarchy ended simultaneously with the expulsion of King Tarquinius Superbus, traditionally in 509 BC. Two elected consuls and a senate composed entirely of wealthy aristocrats known as patricians, controlled Rome's affairs.

During the next 200 years the policy in Italy was directed towards expansion, conquest and consolidation.

Soon after the foundation of the republic Rome played a leading part in the formation of the Latin League, an alliance of the cities of Latium, the western region of central Italy. In 390 BC the Celtic Senones and other Gallic peoples overran northern Italy and captured all Rome except the Capitol. They left on payment of a ransom and Rome profited from the bitter lesson by building the Servian Wall, which made it the most strongly defended city in Italy.

From this secure springboard Rome engaged confidently in a number of wars which resulted in its obtaining undisputed mastery over the whole of Italy from the Po valley southwards. In 340 BC the cities of the Latin League rose against Rome but found themselves no match for their powerful partner. Rome imposed separate terms on each vanquished city, awarding some Roman citizenship, some part citizenship and punishing others, but in each case stipulating that the city should trade only with Rome. The

next struggle, against the Samnites in the south, was much harder. A Roman army was forced to surrender at the Battle of the Caudine Forks, but by 290 BC the war was won. Victory over the Greek cities then gave Rome control over the whole peninsula, a position it consolidated through alliances and the establishment of citizen colonies [4] but above all by the threat of its army.

By this time the plebeians had seen many of their grievances rectified. They had their own council, the *concilium plebis*, and their own officers, the tribunes. In 445 BC they received the right to marry into the patrician class and in 366 BC the first plebeian consul was elected. From 287 BC measures passed by the *concilium plebis* had the force of law. For the moment social conflict was muted although these changes had done little to alleviate the poverty of most of the plebeians.

The Punic Wars

Rome's advance into the south of Italy had brought it face to face with the Carthaginians (*Poeni*), who were ensconced in western Sicily and appeared to have designs on the

CONNECTIONS

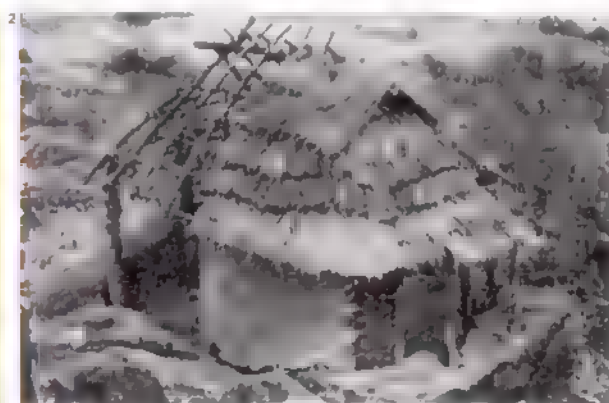
See also

1 The Seven Hills of Rome are flat-topped spurs rising from a low, formerly marshy, plateau. The Palatine, Quirinal and Esquiline were the first to be settled; the Capitoline and Aventine the last. A unified city began to emerge when villages on the Palatine, Esquiline and Caelian came to gather in the early 7th century BC. The first wall round the city was built according to tradition in the 6th century, which was apparently a period of great building activity under the Etruscan kings. The Cloaca Maxima, a sophisticated drainage system, and the temple of Jupiter Capitolinus both date from this early period.

- 1 Circus Maximus
- 2 Circus Flaminius
- 3 Senate House
- 4 Record Office
- 5 Temples
- 6 Juno Moneta
- 7 Jupiter Capitolinus
- 8 Saturn
- 9 Castor and Pollux
- 10 Vestal
- 11 Jupiter the victor
- 12 Markets Bridges
- 13 Fabrician Bridge
- 14 Fish Market
- 15 Cloaca Maxima



A Palatine Hill and Temple of Jupiter
B Palatine Hill



2 A village of huts on the Palatine one of which is shown here in reconstruction, was discovered after World War II. It dates from the mid 8th century BC and so seems to support the legend of the foundation of Rome by

Romulus and Remus. Crude in construction, these huts were the homes of the farmers and shepherds of Latin origin who are the earliest known inhabitants of the city. There is now archaeological evidence that Latium, the area surrounding

Rome, was colonized in the 12th century BC by Late Bronze Age peoples who came from the east by sea thus reinforcing the legend handed down to us by Livy that Rome's environs were settled by refugee Trojans under the leadership of Aeneas.



3 Aeneas, who escaped from Troy after the Trojan War, was said to have founded Rome. This legend was enshrined in the *Aeneid* by Virgil (70-19 BC). This fourth-century manuscript vividly illustrates the dangers of his voyage to Latium.

4 The formation of a new Roman colony was formally recognized when the founder god set a bronze plough, drawn by a bull and a cow, round its boundaries. Colonies were useful as a means of garrisoning vulnerable areas and as a for

moving surplus population and giving them employment. A few colonies were created as early as the 5th century, but the number increased as Rome's dominions spread because citizen colonies as could be founded only in Roman territory.

eastern part. In the First Punic War (264-241 BC) Rome, after several naval disasters, built their first fleet and eventually mastered Sicily [7]. The ostensible cause of the Second Punic War (218-201 BC) was an attack by the Carthaginian general Hannibal on Saguntum, a city on the eastern coast of Spain allied to Rome. Hannibal with 40,000 men and a train of elephants made a remarkable march through Gaul and over the Alps [6]. He inflicted severe defeats on Roman armies at Trebbia, Lake Trasimene and Cannae, but then the delaying tactics of Fabius and the loyalty to Rome of most of its Italian allies began to have their effect. A crucial blow was the defeat at the Metaurus River in 207 BC of Hannibal's brother Hasdrubal, who was bringing reinforcements from Spain.

Rome opened up a second front, the young and brilliant Scipio (later given the title of Africanus Major) capturing Carthago Nova and then driving the Carthaginians out of Spain completely. In 204 BC Scipio led an invasion force from Sicily into Africa. Hannibal was forced to retire from Italy but the

war ended with his defeat at Zama. The Third Punic War (149-146 BC) began when Carthage attacked Rome's ally Massinissa, king of Numidia (modern Algeria). After a desperate siege Carthage was captured in 146 BC and razed to the ground.

Influence of the Gracchi

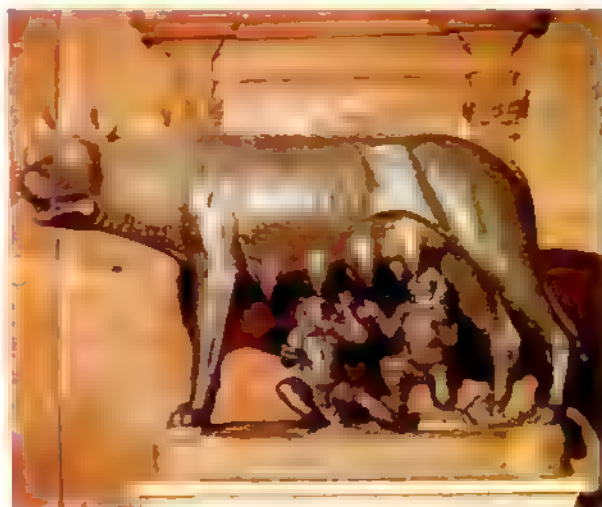
During the second century BC Rome controlled almost the whole of the Mediterranean area, but storm clouds gathered at home. The patricians and rich plebeians kept a stranglehold on government and perhaps of more immediate concern, on land. A champion of the poor arose in the person of Tiberius Gracchus, a tribune of the plebeians, who in 133 BC introduced a land bill intended to reduce drastically the large estates held by a few rich men. Rioters incited by apprehensive senators murdered Tiberius, but ten years later his brother Gaius tried to reduce the price of corn and generally to break the power of the senate. But proposals to extend the voting franchise to Roman Latins were too radical and brought about his political ruin and death.

REY

According to legend a she wolf suckled Romulus and Remus, the mythical founders of the city of

Rome. This famous bronze in the Capitoline Museum is of the late 6th century, the period of

Etruscan kingship. The figures of the twins were added later, during the Renaissance.



5 The three surviving columns of the Temple of Castor and Pollux in the Roman Forum were erected after a battle that ran round a shrine to the divine twins, who were also known as the Dioscuri. The tradition was that the temple was built following a battle between the Romans and the Latins at Lake Regillus in 499 or 496 BC. The twins fought on the Roman side and carried the news of the Romans' victory back to the city. The temple may, in fact, have been built much earlier, in the mid-sixth century, in the early Palatine villages. It was restored in the 2nd century BC and in the 1st century AD.

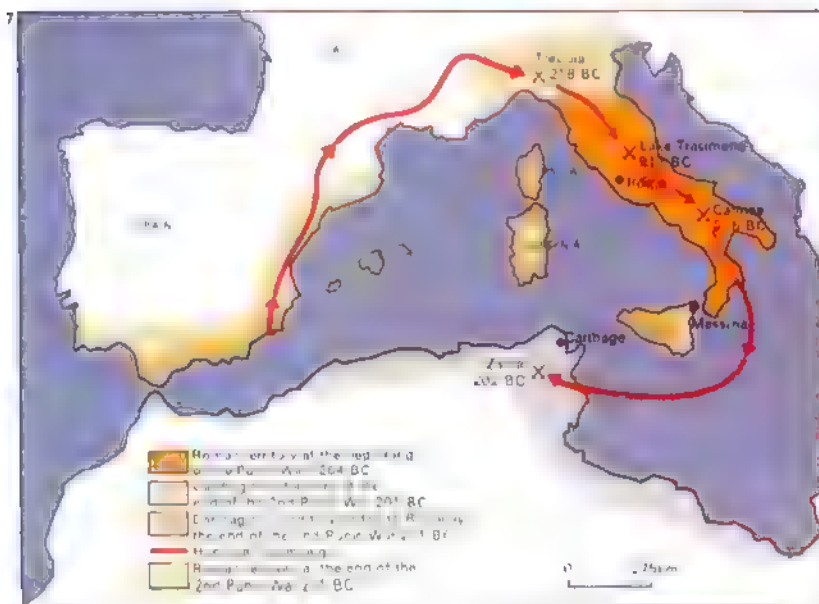


6 This Spanish coin shows Hannibal on one side and a war elephant on the other. The elephants in the force that Hannibal led over the Alps were African forest elephants, which at that time were to be found round the

6 A



Atlas Mountains, the Moroccan coast and the oases of Ghadames in Tunisia. They were much smaller than bush elephants and were better suited to the kind of forced march they had to undertake. They terrified primitive tribes.



7 To make an effective challenge to Carthage's domination of the western Mediterranean, Rome had to become a naval power. A large fleet was constructed and equipped with boarding devices to allow for hand fighting, at which the Romans excelled. As a result, after initial reverses they inflicted never defeat on Carthage in the First Punic War.

8 This Roman soldier of the 6th century BC has a breastplate, helmet, sword and spears. Up to about 400 BC soldiers received no pay and only the rich could afford to do military service. A professional army was set up about 300 BC.



Rome: the organization of the republic

Republican Rome (509–27 BC) is often regarded as a democratic state. Certainly later Roman writers looked back nostalgically on what seemed a golden age of political and social order and agreed morality. There was a theoretical balance between the powers of the magistrates, the Senate and the plebeians. But in fact most of the early republican period was an age of bitter conflict between the nobles of the Senate, anxious to keep their privileges, and the plebeians, equally anxious to have a share of the benefits. It was not until the third century that the plebeians were able to make laws on their own account. Their admission to all the magistracies only created an alliance of the nobility and rich ambitious plebeians, forming an oligarchy as exclusive as the former patrician nobility had been in earlier years.

The political structure of the republic

The Senate and the *concilium plebis* (people's assembly) formed the legislative branch of the republic and the magistrates [1] the executive. The 300 senators [5] were chosen from ex-magistrates by the censors (those

who watched over public morals). The Senate was basically an advisory body with overriding financial control. It initiated legislation and in practice made the vital decisions on war and peace and foreign policy in general. It also assigned provinces to senior magistrates at the end of their year of office. The *concilium plebis*, which represented the plebeians, was able to initiate legislation, its resolutions having the force of law after 287 BC, but in general it merely accepted or rejected proposed legislation.

The chief executives during the Roman Republic were the two consuls. They were elected (from candidates proposed by the Senate) by the *comitia centuriata*, an assembly in which wealthy citizens had disproportionate voting strength. The consuls had immense power, presiding over the Senate and acting as supreme commanders in war. Beneath them were the praetors, whose numbers varied from two to eight and whose main duties concerned the administration of the law. Four quaestors were in charge of the state finances. The two censors supervised state contracts and public morals and, during

the late republic, checked and if necessary expelled members of the Senate.

Streets, temples, public works, the grain supply and the public games were the responsibility of individual *aediles*. Twelve *lictors* preceded consuls and two preceded praetors, clearing the way and carrying bundles of rods known as *fasces*. The ten tribunes were entrusted with the defence of the plebeians, having the power of veto against actions of magistrates and against laws. In the second century BC the tribunes became entitled to sit in the Senate.

The power of the consuls

At the end of their year of office the *imperium* (power) of the consuls and praetors was transferred from Rome to one of the provinces. The Senate decided which provinces should be consular and which praetorian, to avoid corruption this decision was taken before the election of the magistrates. The actual province each magistrate received was decided by lot. *Imperium* did not extend beyond the province's boundaries, as was shown when Julius Caesar, by crossing the

CONNECTIONS

See also

legions and the



1 Most of the civil officers of Rome (in the green band) had legal functions as well as administrative. The generals had military responsibilities only. The *praefectus urbis* was head of the state religion.

2 The basilica at Pompeii, measuring 56 × 21m (185 × 70ft), was built in the first century BC and was the centre of economic life. Most Roman cities had one of these rectangular roofed halls.

where business transactions were concluded. They generally stood near the Forum. Some basilicas included arcades and galleries and their design influenced later Christian basilicas.



3 The demobilization of Roman soldiers is portrayed on this relief (c. 1st century BC). The scribe on the left takes down details from a discharged soldier who holds his certificate, while others wait their turn.

4 The *tabularium* or record office (centre left) was built in 78 BC to the plans of Sulla (138–78 BC). It housed the state archives and was probably an annex of the Treasury. The upper part is a palace (c. 1500).

Rabbin in 49 BC, in effect declared war on the Senate. Governors might keep their provinces for only one year or by *prorogatio* might have their command extended.

The most important religious figure was the chief priest, the *pontifex maximus*. He was the elected head of the college of priests which also included the vestal virgins [7] (who kept the sacred fire burning in the Temple of Vesta) and the *flamines*, each of whom was responsible for the cult of one of the gods. Outside the college were the augurs who from certain signs, such as the behaviour of birds, decided whether a certain course of action was advisable.

The Romans worshipped many gods, most of them originally Greek. The chief god was Jupiter, to whom a temple was founded on the Capitol at the time of King Tarquinius Superbus (reigned 534–510 BC). Religious festivals were held throughout the year [6], among the most important being the *Lupercalia* held on the Palatine on February 15 and the *Saturnalia* on December 17.

The security of the republic and its steady expansion into a great empire depended on

the discipline and courage of its army. The record of victories over powers as formidable as Carthage, Macedonia and Syria was remarkable considering that it was still a citizen militia summoned by the consuls to meet specific emergencies. Only citizens with certain property qualifications were eligible, although an equal number of allies also served. Clearly the quality of commanders and centurions must have been high. Not until the reforms of Marius (157–86 BC) was a professional volunteer army formed.

Taxation and tax-collecting

Most Roman taxation was indirect and included customs duties and a number of special taxes, such as that on the freeing of slaves. The *tributum*, a direct tax, was levied mainly in time of war. The censors decided which taxes were applicable to the various classes, while the quaestors administered their collection. But more and more tax-collecting in the provinces was farmed out to *publicani*. They were closely associated with the wealthy *equites*, the second social class who waxed fat on the proceeds.

The magistrates of Rome had great power and influence. Civil lawsuits were heard first by a magistrate such as the one shown here, before going to a judge for settlement. In the late republican period criminal cases were tried before special courts where the penalties were generally exile, loss of citizenship or hard labour. The most important achievement of the Roman legal system was the classification of its code in order to clarify citizens' rights. The laws were published in 450 BC at the instigation of the plebeians. The body of Roman law, many of the principles of which are still very much in use, has had a vast influence in the West.

ART



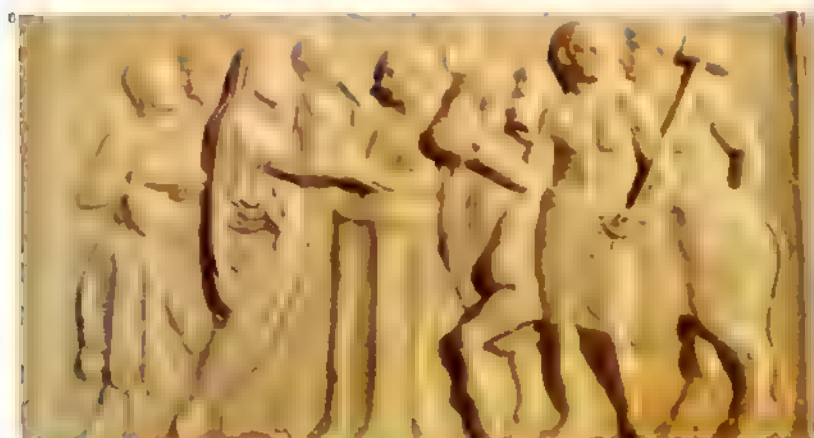
5 The Senate was the principal advisory body of Rome. This 19th-century painting by Maccari shows Appian Claudius persuading the Senate to reject peace proposals from Pyrrhus of Epirus in 280 BC.

6 In the Temple of Vespasian at Pompeii there are sacrificial scenes on an altar dedicated to the Roman imperial cult. Ritual sacrifices of animals such as pigs, sheep and bulls were an

ancient element in the complex of Roman cults. Their purpose was to encourage divine beneficence.

7 The six Vestal Virgins lived in the House of the Vestals in the Forum. They

began their service as children and could retire after 30 years. If they allowed the sacred fire to go out they were whipped by the *pontifex maximus*, under whose authority they came



Roman life

In Rome, as in all societies, the sort of life the people led depended very much on the social class to which they belonged. In general the class system was based on wealth rather than birth, although often the two criteria merged. The highest class was composed of the members of the Senate, who for most of the republican period were *nobles*, or nobles. The second class, the *equites*, or knights, derived most of their considerable wealth from business activities such as banking. Members of the upper classes wielded authority not only over their own families but as patrons over a number of semi-dependants known as clients. The third class of full citizens, the plebeians, after a long struggle won complete political equality. Once they were permitted to hold the magistracies they could move into the highest social class, because former magistrates were automatically *ex officio* members of the Senate.

The Roman slaves

At the base of the social pyramid were the slaves. The settled order of Roman life depended on the toil of slaves, who might

well make up half the population of a town. A slave was under the absolute control of his master during the period of the republic.

During the imperial period the treatment of slaves improved somewhat, some protection being given to them against savage masters. More important, slaves were able to look forward more confidently to eventual *manumission*, or freeing. Many freedmen became extremely wealthy and influential and their sons became full Roman citizens. The life of slaves varied greatly, particularly between town and country. In the country they were likely to work long hours carrying out arduous tasks on *latifundia*, or estates, and on farms or in mills, while in the towns they might be comparatively well treated.

Careers and education

The son of a rich upper-class family might well have political ambitions. But he would generally start by training as a lawyer and become either an advocate in the courts or a legal consultant. Other professions were not thought really respectable. For much of the republic most doctors, architects and dentists

were slaves or freedmen. Writers could expect to make little money from their work unless they could rely on some wealthy patron to encourage them, as Maecenas encouraged Virgil. But most Romans were far from rich or influential. Although manual labour was thought unworthy of a citizen they struggled to make a living as bakers, shopkeepers and craftsmen of all kinds, generally employing one or two slaves to assist them. Some young men might enter the army, which, after the reforms of Marius the consul at the end of the second century BC, was a professional force manned by voluntary recruits who received a small land holding on retirement.

Most children of Roman citizens received some formal education although only boys could expect to go beyond the primary stage. Under the empire some education was provided free for poor students but generally parents paid a small fee. Between the ages of 7 and 12, children received a somewhat rough-and-ready grounding in reading, writing and arithmetic from a *litterator*. They could then, if they chose, move on to a *gram*.

CONNECTIONS

ROME TODAY

1 The ruins of Pompeii were preserved beneath ashes after the eruption described by Pliny the Younger of Vesuvius in AD 79. Excavations revealed a unique record of Roman daily life.

2 This pouterer's shop was located in Ostia, once the port of Rome. Cicero regarded shopkeeping as near the bottom of the list of employments suitable for people of taste - but better than dancing.



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3 Every upper class Roman visited baths like the Stabian baths of Pompeii - daily with his oil flask, towels and other toiletries. He progressed from the tepid to the hot bath, from the sweat room to the cold bath. Refreshments and massage were available. Many baths had separate sections for women.

4 All baking was apparently done at home until the 2nd century BC. The exhausting work of turning the grinding mills was for slaves helped by donkeys. A bakery like this one was uncovered at Pompeii. The oven in it contained a large number of loaves still intact and weighing about 900g (2lb) each.



mutus, under whom they studied Greek and Latin literature and received an introduction to geometry and advanced arithmetic. The third stage in schooling was study under a *rhetor*, or orator, to learn the principles of effective public speaking, an ability that was important for success in politics and in the law courts. Finally the more ambitious and wealthy students might progress to the equivalent of university level. They studied either law, under an established lawyer or at a law school, or Greek oratory and philosophy, which involved attendance at one of the great centres of Greek learning, the most popular of which were at Athens and Rhodes.

Spectator and participatory sports

Sports among the Romans were in two categories, spectator sports and participatory sports. In the first group were the public spectacles staged in the amphitheatres, the 'bread and circuses' of which the satirist Juvenal contemptuously wrote. These included musical performances, readings of verse and theatrical performances, which were sometimes staged with extraordinary

lavishness. What really drew the crowds were gladiatorial contests to the death between men or between men and beasts, and also the thrilling and dangerous chariot races, which might be run between individual charioteers or between teams of chariots.

The Romans did not place the same emphasis on physical exercise as the Greeks, but many young men of the upper classes were enthusiastic riders and hunters. Many also enjoyed boxing and wrestling and there were several ball games, such as *harpastum* and *trigon*, the details of which are rather obscure. Children played many of the games that children have played through the ages: hoops, tops, pitch and toss, marbles, hide-and-seek and leapfrog. In general the adult Roman preferred gambling games above all other leisure activities, except perhaps drinking (there were about 120 taverns in Pompeii). Throwing dice, *tesserae* and knucklebones, *tali*, were the favourite methods of gaming. Dice, which like modern dice carried numbers from one to six, were also used to determine the player's moves in various board games.



Roman shopkeepers worked long hours. Their produce was brought into the city

at night to avoid the traffic congestion of the day. This relief of a

greengrocer's shop in Ostia includes illustrations of various vegetables.



5 The life of Herculaneum, a residential town between Naples and Pompeii, was revealed only after arduous excavations: the eruption of Vesuvius in AD 79 covered it with a thick layer of mud. However the mud preserved much of the original town. Here a mosaic shows a man and woman served by a slave.

6 The house of Menander at Pompeii was more a country villa than a town house. The main reception room in the centre of Roman villas was the *atrium*, which was luxuriously furnished with tiles, marbles and fresco paintings. In the middle of the floor was the *impluvium*, a pool into which rainwater fell.



7 A number of houses at Herculaneum have kept their second storeys. The house shown here, the Casa del Graticcio, still contains its original beds in two small rooms on the upper floor, together with

other furnishings. The house was clearly divided into many small apartments, large blocks of flats, often shoddily built, were a common feature of towns and cities in imperial times.



8 This sandstone relief from Gaul shows a school scene: a teacher is seated between his two pupils who are opening their scrolls for the lesson. Discipline was severe and corporal punishment was frequent. Sons of wealthy families

were escorted to and from school by a household slave or freedman known as a *pedagogus* who was sometimes also a tutor. The children wore warm cloaks and thick shoes to protect them against the rigours of the northern climate.



9 Many Roman houses had a *lararium*, a private chapel to *lares*, spirits of the hearth to whom offerings of food and flowers were made. Closely related was the worship of the *penates*, the guardians of the store cupboard.

From the civil wars to Caesar's empire

The period between about 100 BC and 42 BC – leading up to the fall of the Roman Republic and its replacement by the Roman Empire, was one of disorder and disunity in which ambitious men used ruthless methods in their efforts to secure or maintain dominance. Julius (c. 100–44 BC) was the outstanding figure, but Marius, Sulla and Pompey all contributed to the end of the old form of government.

Political conflicts

In 108 BC Marius, champion of the popular party against undue senatorial power, was elected to the post of his second consulship.

An outstanding general, he proved less skilful as a politician and his influence began to wane. In 90 BC a new popular leader, Drusus, revived advocacy of an extension of citizenship to all Italians. His murder precipitated the Social War in which Rome was pressed by a rising of its allies, finally triumphing only by conceding most of his allies' demands.

The popular cause was still in vogue in 88 BC. When Sulla, the first of the 'luculi' (the great ones), was elected consul, he

rebelled under the lead of Mithridates (c. 134–63 BC), king of Pontus [3], command of the campaign of suppression was given to Sulla (138–78 BC) in 88 BC [5]. The popular party had the vote and insisted on Marius but Sulla followed him back to Rome, forcing Marius to flee. He pushed through measures against his opponents, then set himself to his own career and began a short but effective rule.

Sulla returned to Italy in 82 BC and in 81 BC he and his powerful commander Pompey (106–48 BC) and Crassus (c. 115–53 BC), fought his way to Rome, defeating the opposition by sacrificing his opponents and making himself dictator. He drastically reduced the powers of the tribunes and the consuls and increased those of the Senate, but after he resigned in 79 BC the inability of the Senate to use its powers effectively was revealed. Corruption grew, particularly in the provinces. In Spain, Pompey fought a long campaign against Sertorius, a supporter of Marius. Meanwhile, Sulla died in 78 BC and Crassus was elected consul in 55 BC for two years.

Pompey and Crassus joined forces to gain control of Rome, securing their illegal election as consuls in 70 BC. They soon swept away Sulla's legislation favouring the Senate and pushed their reforms through. Pompey demonstrated his military and organisational skills by speedily clearing the eastern Mediterranean of the growing menace of piracy. In 60 BC he was given virtual control of the East.

The First Triumvirate

On his return Pompey received a gold reception from the Senate and he joined with Crassus and Julius Caesar (100–44), who had returned from governing Spain, in forming the First Triumvirate. They forced through legislation by appealing to the Assembly over the heads of the Senate. Pompey received approval of his Eastern settlement and Caesar, after his consulship in 59 BC, was granted command in Gaul for five years.

In 55 BC Pompey and Crassus were consuls while Caesar received a five-year extension of his command. Crassus supported Pompey, but when he died in 53 BC after a

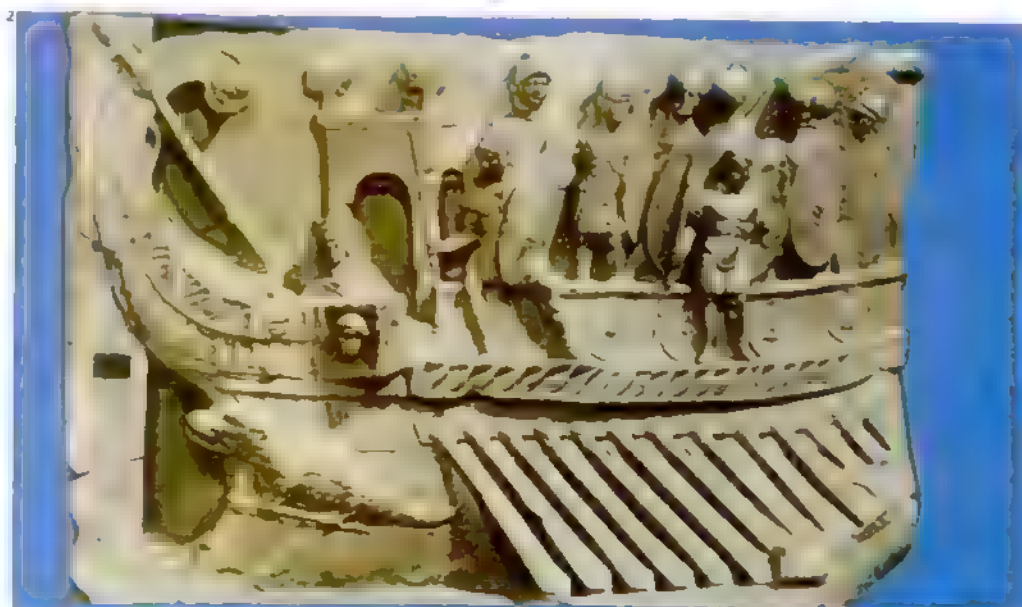
CONNECTIONS

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1 Jugurtha grandson of Masinissa seized the throne of Numidia in 112 BC. King of Severa Numidia, in the process Rome sent a variety against him. He was dragged off to Rome and executed.

Marius, who had been consul in 108 BC, led an army against him. He was killed in the process. Rome sent a variety against him. He was dragged off to Rome and executed.



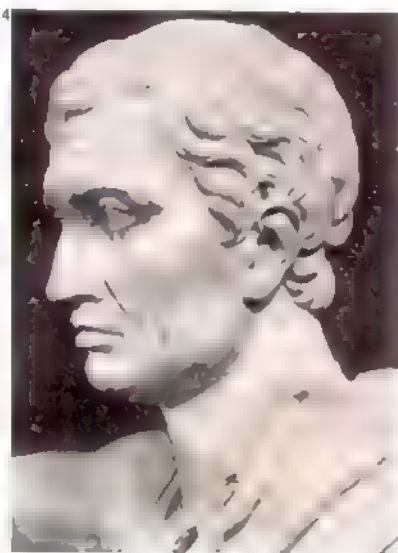
2 A relief from the Temple of Fortuna Primigenia at Praeneste shows a battle scene with soldiers on horseback and on foot.

ship of the 1st century BC with soldiers on horseback and on foot.

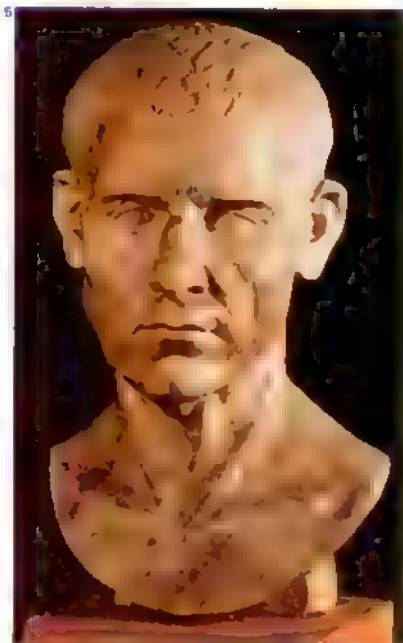


3 Mithridates VI King of Pontus controlled the Crimea and much of southern Russia. In 88 BC he began a struggle against Rome that was fought for 25 years. He was killed in Asia Minor and invaded Greece before making peace with

Sulla. A second war in 88 BC was won by Sulla. A third Mithridates was killed in 74 BC. Pompey made peace with Sulla in 71 BC. Pompey made peace with Sulla in 71 BC. Pompey made peace with Sulla in 71 BC.



4 Pompey the Great Gnaeus Pompeius Magnus, a brilliant military genius, of Caesar and was a less skilful politician. He was, however, a brilliant administrator and ruthless general who achieved power easily and set up positions for himself that by waiting for situations to arise in which he would be called on to lead.



5 Lucius Cornelius Sulla made his military reputation in the Social War. Elected consul in 88 BC he received the command against Mithridates. Later he used the office of dictator to massacre his opponents and force through a Senate bill in 81 BC. He formed the criminal law setting up quæstiones for particular crimes.

on Parthia ended with his death at the disastrous Battle of Carrhae. Pompey received Spain as his province but preferred to stay in Rome, intriguing with his supporters against Caesar, whose successful campaigns in Gaul [6, 8] were proving an embarrassment. Caesar, having conquered the whole of Gaul and made two exploratory invasions of Britain, was now ready to return to Rome, backed by his devoted legions.

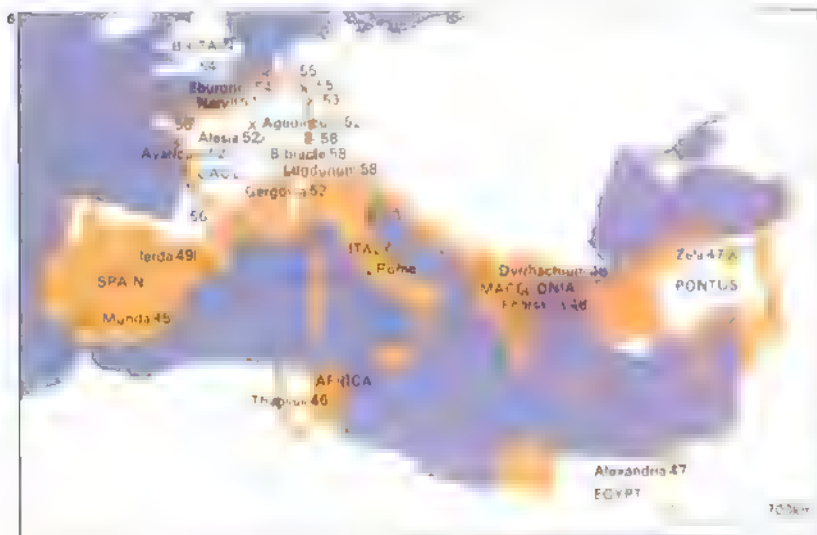
After fruitless attempts to reach a compromise or reconciliation, the Senate in 49 BC ordered Caesar to disband his army. Caesar at once crossed the Rubicon, the river dividing his province from Italy, and marched on Rome, so plunging Italy into civil war. Pompey hastily left for Greece, hoping to mobilize the resources of the East. Caesar quickly mastered Rome and went on to crush forces favourable to Pompey in Spain, to defeat Pompey himself at Pharsalus in Thessaly in 48 BC, and finally to pursue him to Egypt, where Pompey was murdered. Delaying his campaign, Caesar began his celebrated affair with the Egyptian queen Cleopatra VII (69-30 BC) [9]. But within

two years he controlled Roman Africa. Finally he sealed his authority by quelling a revolt by Pompey's sons in Spain.

End of the republic

The main basis of Caesar's authority was the office of dictator, which he held twice before receiving it for ten years in 47 BC. He packed the Senate with his supporters, nominated some of the magistrates and, although denying any ambition for kingship, finally accepted the dictatorship for life. Brutus (died 42 BC) and Cassius (died 42 BC) organized his assassination at a Senate meeting on 15 March 44 BC. They hoped to save the republic, but it had been fatally weakened: the only question was who would be Rome's first emperor. Mark Antony (died 30 BC), Lepidus (died 13 BC) and Octavian (63 BC-AD 14), Caesar's heirs, were the three contestants. In 43 BC they formed the Second Triumvirate, issuing proscriptions for the deaths of many. Caesar's death was avenged when Octavian and Antony defeated Brutus and Cassius at Philippi in 42 BC. Octavian was soon to become sole ruler.

Julius Caesar born in 100 BC was the son of a leading patrician family. His aunt was the wife of the popular leader Marius and his own wife Cornelia was a daughter of Cinna, Marius' successor. These connections displeased the conservative Sulla and Caesar left Rome. On Sulla's death he returned and made a reputation as a barrister and political orator. Moving up the political hierarchy, he became quaestor in Spain. After Cornelia died he married Sulla's wealthy granddaughter Pompeia and set out to become a popular party leader. His election as praetor for 62 BC provided a springboard for his swift rise to absolute power in Rome.



8 The triumphal arch at Orange, France is the third largest Roman arch extant. It commemorates

Caesar's victories over the Gauls with reliefs of prisoners of war and captured armour. The capture

of the port of Massilia is commemorated by such designs as anchors, prows and ropes.

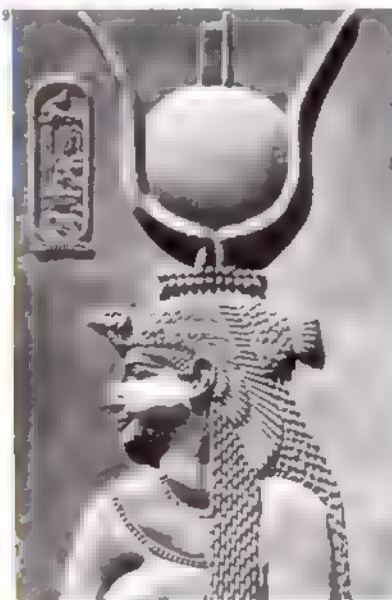
9 Cleopatra, Queen of Egypt, was the mistress of Caesar and Antony. She bore Caesar a son and

6 Successful campaigns were waged by Julius Caesar between 58 and 51 BC against the Helvetii, Belgae, Veneti and the Aquitani. He conquered the whole of Gaul and made it a new province, Transalpine Gaul. He twice landed in Britain, near Wexham or Deal in 55 and near Sandwich in 54 BC. The second expedition was on quite a large scale and Caesar penetrated northward beyond St Albans.

— Roman territory in 63 BC
— Conquests of Julius Caesar (63-49 BC)
— Civil war campaigns

followed him to Rome. After Caesar's death she returned to Egypt, marrying Mark Antony in 37 BC.

7 Standard equipment of a legionary in the later republican period was a gladius (short sword) and a scutum (shield).



10 A Roman siege tower was divided into several storeys and was up to 55m (180ft) tall according to the height of the wall to be attacked. It was hauled along a prepared causeway by ropes and capstans. Archers fired on the defenders from the upper storeys while on the bottom floor a battering ram pounded the base of the wall. A boarding bridge could be let down from the top.



Rome: the expansion of the empire

Octavian became the undisputed master of the Roman Republic and Empire following his victory over Mark Antony at the Battle of Actium in 31 BC. There is no doubt that he intended to establish a personal dynasty, but he was too clever a politician to ignore the strength of republican feeling in Rome. When he returned from the East in 29 BC, he ostensibly restored the republic and set out to establish absolute power within it.

Augustus: "first among equals"

The Senate voted Octavian the honorary titles of "Princeps" (first citizen) and

Augustus, by which he was known thereafter [Key]. Additionally, he received consular status and the power of a tribune with the right to summon the Senate, introduce business, veto decisions, nominate candidates for elections and issue edicts. This was how Augustus was able to influence the government of Rome and Italy and put in hand massive development programmes [2].

The government of the empire was divided between the older, settled provinces governed by procurators elected by the

Senate, and the newer, military provinces that were ruled through legates appointed by Augustus as a proconsul with special powers over all others [1]. The army was reorganized under the emperor's direct control into a force of 28 legions of professionals recruited for 20-25 years. It was drawn from Roman citizens plus an equal number of auxiliaries enlisted from provincial territories. This system, of emperors ruling with the Senate was to endure for more than 200 years.

The most important immediate task was to restore order to the empire and secure its frontiers. Augustus's first expeditions were to Gaul and Spain, each of which was reorganized into three provinces. The River Danube line was secured with a series of military provinces garrisoned by large legions (13), and attempts were made from 2 BC to push forward across the Rhine to the Elbe. But the annihilation of three legions under Varus by the Germans in AD 9 forced Augustus to accept the Rhine as his boundary. In the east, peace was made with the Parthian Empire and a buffer state was established in Armenia. Internally, brigand-

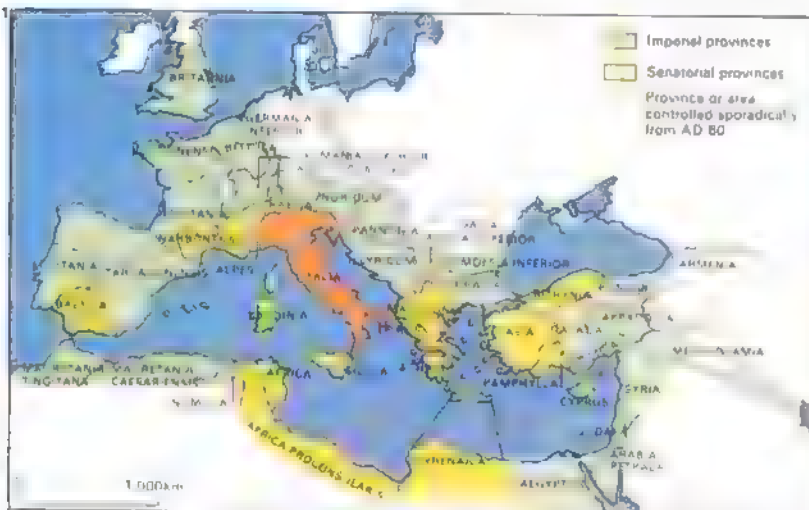
Slavery and piracy were stamped out and taxation and the administration of Roman law put on a uniform basis.

Augustus died in AD 14 and under his successor Tiberius (reigned 14-37), his policies of establishing order were continued so well that the incompetence of Caligula (reigned 37-41) caused little lasting harm. Under Claudius (reigned 41-54) the conquest of Britain was begun and Mauretania (now Morocco and Algeria) was occupied.

Problems of succession

A major weakness of the Augustan imperial system was that the succession was never formulated and when in AD 68 the last of his direct house, the unstable Nero, was killed four rival candidates for emperor were put forward by different sections of the army. Following a terrible civil war, Vespasian (reigned 69-79) was successful and developed a system whereby each emperor "adopted" his successor, thus giving the empire stability.

Under Trajan (reigned 98-117) the frontiers of the empire were again extended and



1 The Roman Empire, at its height in the 2nd century AD was theoretically d.v

ided into provinces
controlled by the
Senate and the em
peror. In reality

the emperor had the power to intervene in senatorial provinces. Italy itself

was ruled according to a modified version of the republican constitution.



2 The Roman Forum (now in ruins) was the centre of the government of the empire. Augustus and his successors symbolized their power in a series of impressive public buildings. The ad

ministration of all parts of the empire remained a most efficient rely in the hands of native Romans who held both governorships and lesser posts until well into the 2nd century. Yet an increasing

number of provin-
cials succeeded in
working their way up
the administrative
adder first from
the western prov-
inces and then from
the eastern. By AD
200 57% of the Sen-
ate were provincials



4 The theatre at Palmyra in Syria is typical of the fine buildings temples amphitheatres aqueducts and baths - that were built in all the provinces of the empire. Just as they were built for other religions, the Romans took care not to interfere with the social customs of the peoples they conquered. The civilizations of Greece and the East continued to flourish but provincials were inevitably influenced by the example of Roman culture.

Dacia, Armenia and Mesopotamia were added [8], but the last two were abandoned by Hadrian (reigned 117-138). Hadrian concentrated on improving existing imperial defences - building a wall across northern England and a fortified line between the Danube and the Rhine - and travelled throughout the empire inspecting the imperial administration and legal systems.

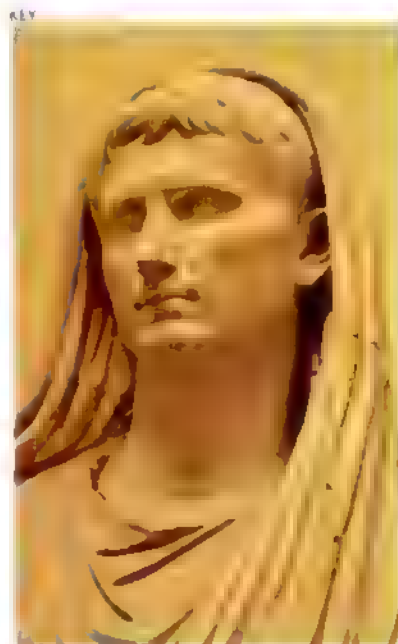
Peace and prosperity

Under the Antonine emperors (so called because of the family name of Hadrian's successor Antoninus) the empire was at its most peaceful. A man could travel in safety from Britain to Arabia along superb roads and secure seaways [5]; trade flourished [6] and a single culture, two languages - Latin and Greek - and a single system of law and administration covered the whole empire. Great cities with fine public buildings grew up in the provinces [4], where the people strove to become Roman citizens.

There were, however, underlying weaknesses. Rome had grown rich in booty and taxation from the provinces and economic

activity tended to be one-way, with wealth and produce flowing to Rome but little produced in return. This caused jealousy in the provinces and an increasing idleness within Italy [7], problems made worse by the widespread use of slaves for all productive labour and a steady decline in the population. It became more and more difficult to find native citizens to undertake the many administrative and military duties on which the government of the empire depended. As a result an increasing number of provincials reached high administrative positions.

Under Marcus Aurelius (reigned 161-180) [9] the peace ended. In the east a Parthian attack was defeated but the returning troops brought back a terrible plague which devastated the whole empire and further reduced its manpower. On the Rhine and Danube frontiers the barbarians were being forced forward by a massive migration of Goths in central Europe, and in 167 several tribes crossed the Danube and Alps and swept into Italy. Dacia was also overrun and Marcus spent the rest of his reign fighting to restore the frontiers.



The Emperor Augustus, shown here as Pontifex Maximus (High Priest). The state religion of the Roman Republic continued under the empire. The emperors were deified after their deaths and sometimes they were worshipped during their lifetimes by people in the Roman provinces. Other religions were tolerated as long as they accepted the divinity of the emperor and many Eastern cults such as Mithraism or the worship of Isis, which provided greater mysticism and colour, became popular. Only Judaism and Christianity, because they denied the divinity of the emperor, were disfavoured but there was little direct persecution.



5 The network of roads and sea routes that held the empire together was built to enable troops, tax collectors and administrators to travel swiftly. But the great roads also allowed traders to cover the whole em-

pire easily and the Roman world became an economic common market, with goods from one area available everywhere.

6 The loading of a Roman grain ship is shown in this picture. Egypt and North Africa were

the granary of the empire and the importance of the grain trade, which provided a free ration for every citizen in the capital, was recognized by placing the trade directly under the personal control of the emperor.



7 Races - especially chariot races - and gladiatorial games became increasingly popular and important under the empire. Thus the emperor and rich patricians counted the popularity of the Roman mob by providing even more

lavish spectacles. The distribution of free bread and the frequency of free entertainments helped to insulate the Roman people from economic and political reality and played a major part in dissolving civic responsibilities.

8 Legionaries and their captives are shown here on Trajan's Column, a memorial in Rome to the Emperor's victories in Dacia. Trajan brought the empire to its largest extent with legions crossing

the Danube into Dacia and down the Tigris and Euphrates to the Persian Gulf. But these areas were never fully pacified and their defence was a drain on the empire's military and financial resources.



9 Marcus Aurelius, shown here addressing his troops, was a civilized, highly educated man and a staunch follower of the Stoic philosophy. He was fated to spend most of his reign struggling against the first great onrush of barbarians that threatened to overwhelm the empire. For the first time in centuries a foreign invader swept over the Alps into Italy and Aquileia was besieged. Only by concentrating every citizen, including gladiators and brigands, was Marcus able to drive back the barbarians, restore the River Danube line and begin the work of reconquering Dacia. His reign marked the end of the enduring imperial peace.

Roman rule in Britain

The Romans ruled Britain, or at least its southern half, for more than 300 years. The northern frontier was always a problem, but much of England enjoyed a peaceful and prosperous existence as one of the provinces of the Roman Empire. The people, particularly in the towns, adopted many of the social and religious practices of their occupiers. The final collapse of Roman power resulted as much from civil strife in Italy as from unrest among the Britons.

Patterns of conquest

A century separated the Romans' first tentative probes into Britain and their full-scale expedition of conquest. Britain fascinated the Romans as a strange romantic land in much the same way as the New World fascinated the Elizabethans. But the Romans also coveted its mineral wealth and realized its important strategic position. Julius Caesar (c. 100–44 BC) was anxious to cut off the aid that the Britons were giving to the Gauls. His first landing, in 55 BC, achieved little of substance. In his second attempt the following year he marched north and probably cap-

tured the defenders' stronghold at Wheathampstead, Hertfordshire.

The Emperor Claudius [1], anxious to give some shine to his exceptionally dull image, ordered the conquest of Britain in AD 43. The troops of four legions (3,000 to 6,000 men in each), plus auxiliary regiments of provincials, landed and made their main base at Richborough. The invaders soon won a major victory on the River Medway. The main British force under Caractacus (died AD 54) withdrew and avoided further pitched battles. Claudius himself made a brief visit to lead his forces triumphantly into Colchester (Camulodunum).

The south and Midlands up to the Trent and Severn rivers were occupied without much opposition being met. But in Wales Caractacus led a stubborn resistance based on guerrilla tactics. When he was eventually inveigled into the open he was defeated, and was taken prisoner to Rome and exhibited in the triumph awarded to the successful Roman general. By AD 61 the Romans controlled England as far north as the River Humber. But in that year Boadicea

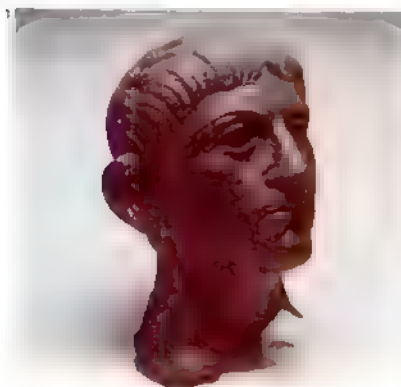
(Boudicca) [3], Queen of the Iceni in East Anglia, led a revolt which spread so quickly that the governor, Suetonius Paulinus, was forced to abandon Colchester, London (Londinium) and St Albans (Verulamium). Inevitably the greater armed power, skill and discipline of the Romans prevailed and the rebellion was crushed with savage reprisals.

Consolidation and administration

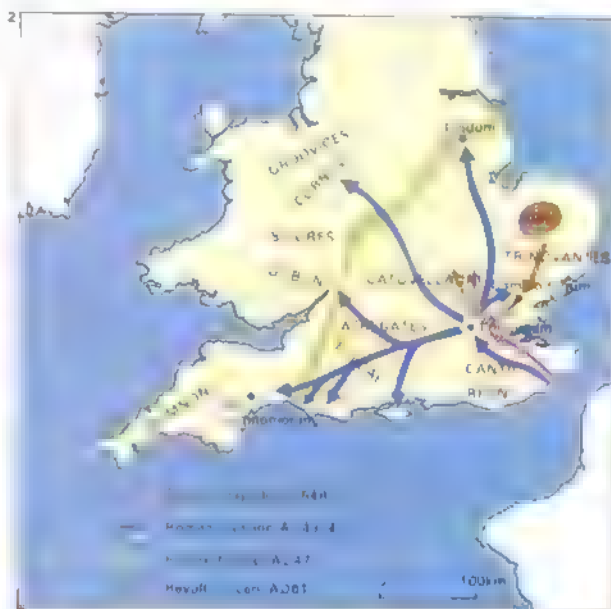
By AD 80 the whole of Wales had been subdued. The new governor, Agricola (AD 37–93), pushed the frontier northwards to the Forth and Clyde, and at the Battle of Mons Graupius gained the whole of lowland Scotland. But as elsewhere in their empire the Romans found it difficult to maintain their expanding frontiers securely. A period of consolidation led to the building of Hadrian's Wall [4] between the Tyne and the Solway during the AD 120s. Under the Emperor Antoninus Pius further attempts were made to subdue Scotland, and the Antonine Wall was built linking the Firth of Forth and the Firth of Clyde. Hadrian's Wall fell into disuse for a period but by about AD

CONNECTIONS

See also



1 A bronze head of Claudius, Emperor of Rome from AD 41 to 54, was found in the River Alde in Suffolk. Claudius instigated and took a close personal interest in the conquest of Britain which was important for his own prestige. During the 16 days that he spent campaigning in Britain he led his troops from the Thames and quickly captured Colchester. He also received the surrender of many tribes.



2 The two Roman invasions came about for different reasons. Julius Caesar saw the British campaign as a diversion from his main task of subduing Gaul and retired after achieving his aim of defeating the British chief Cassivellaunus. By comparison Claudius hoped to confirm his own dubious power in Rome and at the same time saw the creation of a new colony in Britain as a means to balance the great power of the generals on the Rhine. South-east Britain was the centre of both Celtic and Roman Britain at this time: the Fosse Way was the frontier of Roman Britain in AD 47, and served as a springboard for advances into south Wales in AD 49 and north Wales in AD 61.



3 Boadicea, warrior queen of the Iceni in East Anglia, riding in her war chariot, symbolizes revolt against Roman oppression. This massive sculpture, executed by Thomas Thornycroft in 1902, stands nationally at the west end of Westminster Bridge, London.

4 A long stretch of Hadrian's Wall that is better preserved than most runs along the Whin Sill escarpment near the large fort of Housesteads. The wall runs for 117.5 km (73.5 miles, 80 Roman miles) from Wallsend on Tyne to Bowness on Solway. It was

built in the AD 120s after a visit by the Emperor Hadrian, to help to defend the empire's most northerly frontier from invasions by the Picts. It was several times overrun and rebuilt before the border was finally abandoned to the Picts in AD 383.



200 it again formed the northern frontier.

The first capital of the province of Britannia was Colchester, but London soon succeeded it as the centre of administration and trade. The bridge over the Thames there was the focal point of the road network and of the sea trade routes. London was burnt during Boadicea's rebellion but was quickly rebuilt and became one of the largest cities in the Roman Empire. The governor was assisted by an *iudex* who was responsible for justice in the civilian zone, and by many civil servants. Taxation and the treasury were under an independent *procurator*.

In the early third century Britain was divided into two provinces. London was the capital of Britannia Superior and York (Eboracum) became the capital of Britannia Inferior. Later, four provinces and then five were created. Communities had considerable control over their own affairs and the *coloniae* (important towns) [7] of Colchester, Lincoln (Lindum) and Gloucester (Glevum) were virtually self-governing.

Most Britons lived a settled, peaceful life under civil rule. But the territories between

the Humber and Hadrian's Wall, much of Wales and some other areas, were under military rule and were controlled through a network of large garrison bases and smaller fortresses. The movement of troops was aided by an excellent road system. Roads and forts always followed close on the heels of conquest. Important roads were Watling Street, from Dover (Dubrae) to Chester (Deva), Ermine Street, from London to York, and the Fosse Way, from Lincoln to near Axminster.

Withdrawal and abandonment

In the fourth century Saxon raiders became a serious threat to the southeast coast while the Picts and Scots increased pressure on the northern frontier, destroying Hadrian's Wall and overrunning much of the north in AD 367. The situation was temporarily restored but Roman forces began to withdraw, and by the early fifth century had completely abandoned the island. The last appeal for help was rejected by the authorities in Rome in AD 446 and the Anglo-Saxons began the process of effacing or transforming many of the signs of Roman occupation.



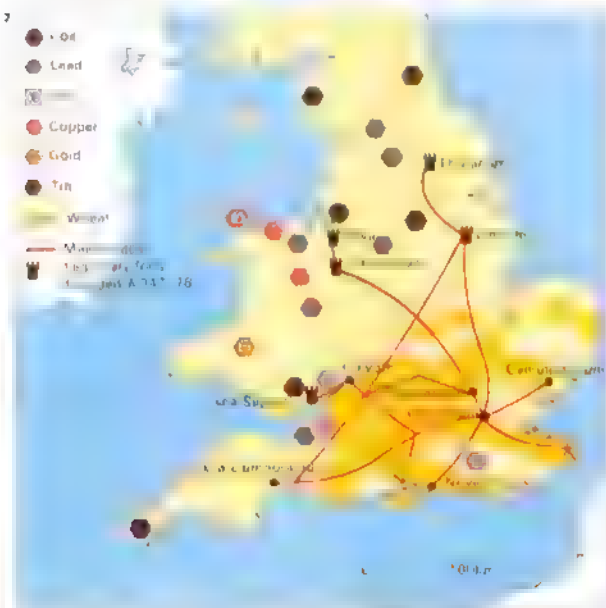
The arrogant attitude of the Romans towards the conquered Britons in the early years of their occupation is graphically illustrated by this scene of a Roman cavalryman trampling a Briton under his horse's hoofs. The horse man, named Longinus, came from Sofia in modern Bulgaria, and was a *duplicarius* (junior officer) in a Thracian cavalry detachment. The scene was carved on a tombstone found on the site of Colchester. The troops of Boadicea (died AD 62) defaced the tomb, overthrew the headstone and burnt Colchester as an act of vengeance after the Romans had violently taken over the territory of the Britons. The scene also depicts the flogging of Boadicea and raped her daughters.



5 This reconstructed Roman boat is typical of the craft used by the Romans to bring

troops and supplies from Gaul and up the main rivers of southern Britain. But communi-

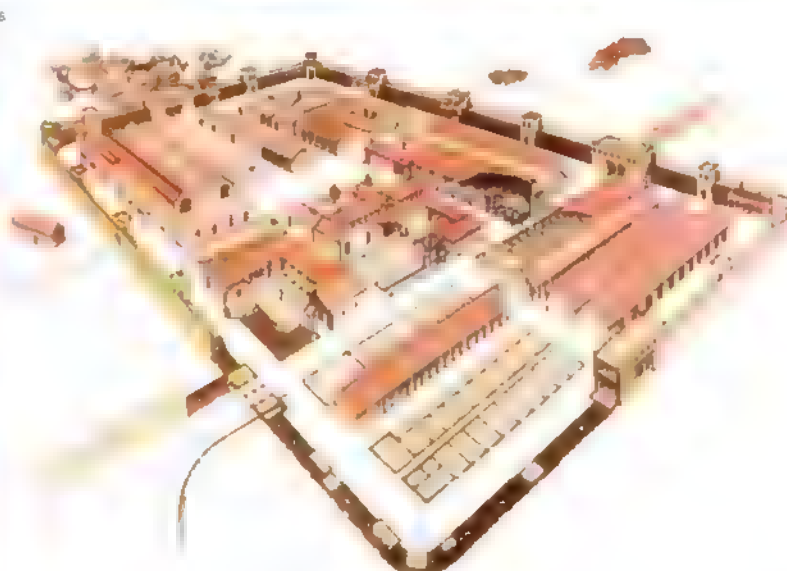
cation by road was soon developed as the most efficient means of military control.



7 The map of Roman Britain during the early decades of conquest and control shows roads, towns, frontiers, fort systems and industrial and agricultural regions. Throughout their empire the Romans put the emphasis on urban

rather than on rural life. The first of many towns they founded in Britain was at Colchester while other towns developed from the settlements outside the military stations. The largest element of local government was the *civitas* (com-

munity), which was based on already existing tribal groupings. The most important towns received the title of *colonia* or *municipium*. Such towns were permitted to elect a town senate which provided magistrates for administrative duties.



6 The typical Roman fort would hold 500 to 1,000 men. Each fort was strengthened by a wall with an earth rampart banked against it. From the main gate (*porta praetoria*) a main street (*via praetoria*) led to

the headquarters building (*principia*). From there the other main street led to the side gateways, the *porta principalis dextra* and *porta principalis sinistra*. Within the fort there would usually be barracks for the

troops and their officers, a workshop, granaries, stables, armories, the regimental chapel and the commandant's house. Water would be supplied by an aqueduct running from a nearby river. Civilian settle-

ments were often built and grew up outside the walls of the fort to provide a measure of comfort. Forts were built along Hadrian's Wall at regular intervals in order to repel aggressive barbarian tribesmen.



8 The Roman fort of Anderida at Pavese in Sussex was built c. AD 280 to defend the south coast against Germanic invaders. A chain of these forts was built from Norfolk to the Isle of Wight to protect important harbours against the incursions of Saxon sea raiders. Others were built on the west coast. In AD 451 the Saxons stormed Anderida and slaughtered every one in it. Today the fort stands several miles away from the shore because of the silting of the harbours.

Life in Roman Britain

In Celtic times Britain was already a prosperous country. The Romans rapidly increased its prosperity. Their colonial policy aimed at winning the approval of the upper classes by founding new centres such as Lincoln in the countryside, or by introducing Roman civilization to existing tribal centres. Their way of life affected the lower classes only slightly and gradually.

Life in the towns

At the centre of the typical Roman town [3] was the *forum*, round which were grouped buildings such as the *basilica* (hall of justice and public meeting-place), *curia* (council chamber), temples, baths and shops. The shape of each town was essentially that of Rome itself. The streets were paved and some had main drains beneath them to which house drains could be linked. Principal buildings were constructed of stone, with timber buildings surrounding them, and in the bigger towns wealthy Romans and Britons owned houses built of brick.

Labourers and craftsmen lived in simple rectangular houses made of wood, set with

their longer dimension at right-angles to the street. They doubled as shop-front and workshop, the living rooms being set behind the working areas or on an upper floor and equipped with furniture and utensils that were usually homemade. Merchants' houses were larger, and made of brick, with an internal courtyard. They might have a hypocaust [7] (a system of underfloor central heating), a flush latrine (fed by rainwater collected in a lead tank on the roof), mosaic floors [Key] and brightly frescoed interior walls.

In Roman eyes the bath house was an essential feature of civilized life and even the smallest town had one, centrally placed and open to all. Amphitheatres were important, apart from the entertainment they provided, for the urban solidarity they demonstrated. The Romans enjoyed violent entertainments as well as chariot races in which blood was shed accidentally, there were gladiatorial performances in which it was shed deliberately. Amphitheatres seating perhaps 5,000 spectators can still be seen at Silchester and Dorchester. Theatres ex-

isted in only the most important towns, such as St Albans [5].

Britons who lived in the towns, or visited them regularly, probably adopted the dress of the Romans. Those who, as Roman citizens, were entitled to wear a toga probably did so on formal occasions. Others wore tunics and, out of doors, hooded cloaks. Soldiers serving at Hadrian's Wall are known to have worn socks and underpants.

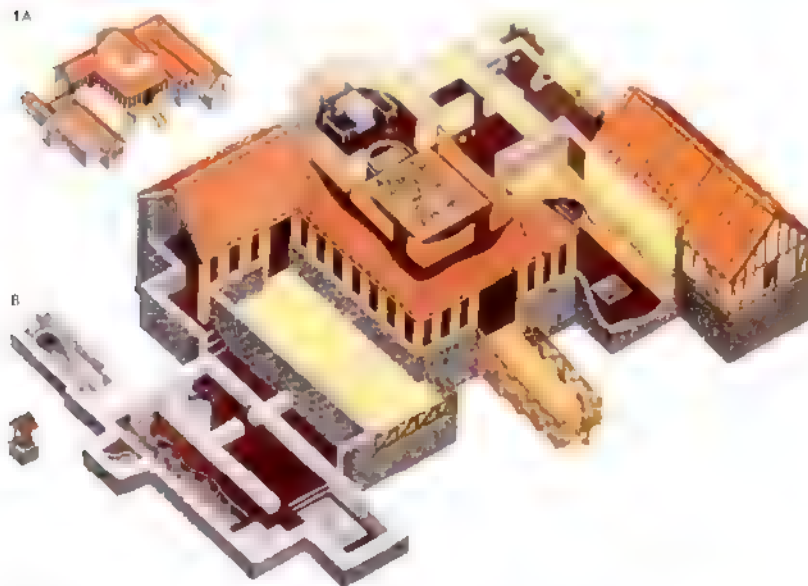
There was considerable interchange between Roman and Briton. Soldiers on the northern frontier, for instance, spoke a British dialect of Latin and drank not only imported wine but also "Celtic beer". Civilian settlements grew up beside forts and even in its most remote outposts the Roman army lived constantly in the company of the people it had conquered.

Agriculture and industry

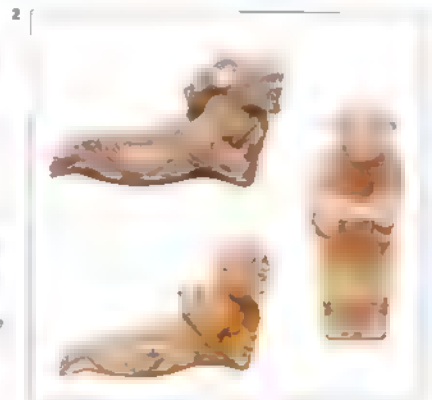
Within Roman Britain the pattern of agricultural life seems to have changed little, even in their *coloniae*, or settlements of veteran soldiers, the Romans do not seem to have brought to bear their improved agricul-

CONNECTIONS

See also
 • *Britain in Roman Times*
 • *Rome*
 • *Life in the Roman Empire*
 • *The Roman Army*
 • *The Roman Economy*
 • *The Roman Religion*
 • *The Roman Law*
 • *The Roman Literature*
 • *The Roman Art*
 • *The Roman Architecture*
 • *The Roman Engineering*
 • *The Roman Science*
 • *The Roman Medicine*
 • *The Roman Education*
 • *The Roman Social Structure*
 • *The Roman Family*
 • *The Roman Marriage*
 • *The Roman Divorce*
 • *The Roman Slavery*
 • *The Roman Taxation*
 • *The Roman Military Service*
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 • *The Roman Citizenship*



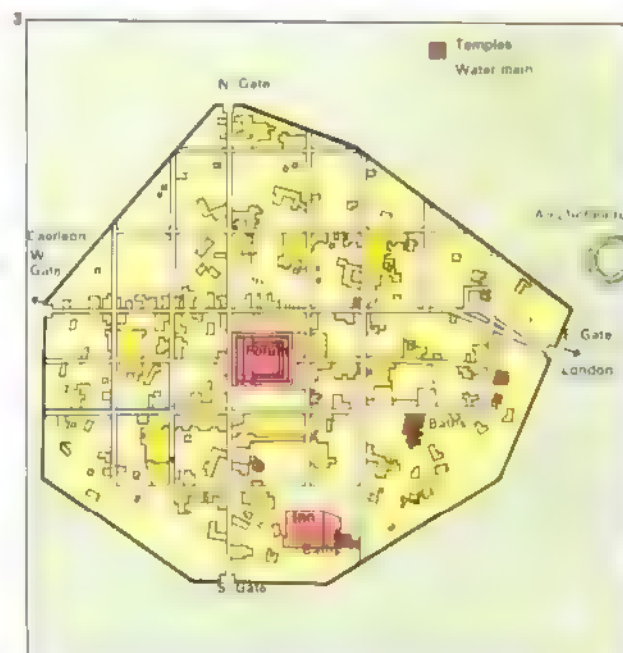
1 The Roman villa at Lullingstone, Kent (shown here in model (A) and cutaway (B)) was built on an ancient site. The first stone house to appear on the site was probably built by a British farmer in the 1st century AD. By the end of that century it was occupied by a Roman and was greatly expanded by the addition of baths and other rooms. The house stood empty for most of the 3rd century until it was taken over by a prosperous Romano-British family. During the 4th century its celebrated mosaic floor was laid in a new reception room and another room was converted into a Christian chapel. The house was abandoned in about 400.



2 Pottery figurines fashioned to represent different occupations were excavated from a Roman child's grave at Colchester. The stocky build and general facial characteristics of the figurines suggest that they depict

men from northern Italy. It is known that after AD 48, veteran soldiers, mostly Italian, increasingly settled at Colchester and raised families. Eventually there were several thousand members of this community.

3 Silchester in Hampshire, is the only Roman town in Britain that has been completely excavated. The first town on the site, where seven main Roman roads met, is thought to have been founded about AD 45. It is a typically Roman town in its grid-iron arrangement, buildings such as baths and temples, its residential areas and its open spaces. The centre, as in Rome itself, was the *forum*, a large square surrounded by public buildings and shops. The most important building was the *basilica*, a long hall where business was transacted. The shops in the forum were more elaborate than the ordinary shops which served also as houses and sometimes as workshops.



4 St Martin's Church, Canterbury, is probably the oldest Christian church in Britain. It is also the only building in the country that was used for Christian worship in both Roman and Anglo-Saxon times. Before being adapted for Christian use, the site had served as a pagan temple for Romano-Celtic religions. The Kentish queen Bertha worshipped there in the 6th century and St Augustine used it as his headquarters for his mission to re-Christianize England in 597. The western

part of the church was probably the site of the church of Durovernum, built in the 3rd or 4th century. Few other buildings in Roman towns have been identified as specifically Christian edifices, usually small square rooms were set aside for worship.

was his Roman and was probably the site of the church of Durovernum, built in the 3rd or 4th century. Few other buildings in Roman towns have been identified as specifically Christian edifices, usually small square rooms were set aside for worship.

tural technology. Most villas [1] were comparatively simple and even the most luxurious were primarily productive farms.

Agriculture was the means of subsistence of most people in Roman Britain [8], after that came textiles, above all wool. Numerous varieties of weave have been recently unearthed at Vindolanda, near Hadrian's Wall, where remains of a tannery were also found. Wine, olive oil and works of skilful craftsmanship were imported into Britain, but in return Britain exported wool and, after native potters had learnt from the Romans, pottery such as *Castor* ware. Mineral deposits were worked by the Romans to a much greater degree than ever before.

The Roman ideals

The roads that fostered the urban way of life, and made Britain for the first time a living unity, were built primarily for the uses of the army and the administration. For those who used them there were *mansiones* (stopping places) spaced at regular intervals of ten Roman miles. A typical *mansio* had six main rooms: a heated dining room, a

kitchen and a small bath house, all of which together with the staff, had to be maintained by the local community. Another significant way in which Britain was now unified was in the law, which probably did much to spread the use of Latin among the upper classes.

There was great variety in the practice of religion. Claudius had from the first introduced emperor worship, but this was a comparatively small part of a Roman's typical round of religious duties. The Romans had done their utmost to stamp out Druidism, for they violently disapproved of its human sacrifices, but they were otherwise tolerant either of the religions they had imported, such as Mithraism, originally from Persia, or of the native religion, of which little is known. The chief Celtic deity seems to have been a figure whom the Romans identified with Hercules [9]. Christianity made some converts, mostly in the fourth century [4].

When the Romans departed, the country quickly lapsed from its civilized ways. But the memory of Rome remained for centuries afterwards an ideal to which the emergent nation had continually returned.



Mosaics such as this 2nd-century depiction of a deity from a villa at Conington (Cambridgeshire) were put in

many public and private buildings of Roman Britain. They often represented mythical scenes. The invaders

tried to bring their Mediterranean style of domestic Britain, adapting it as little as possible.

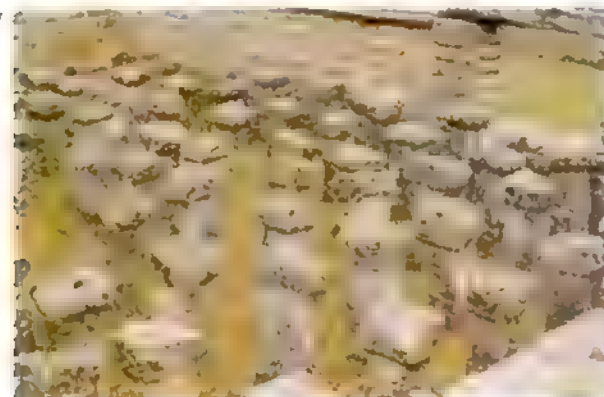
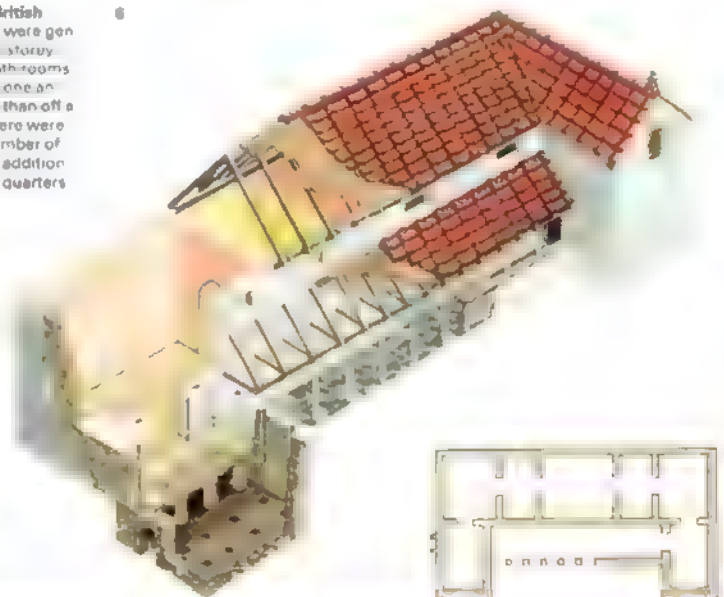


5 The theatre at Verulamium (St Albans) which was built about AD 140 is one of only three

found in Britain. It was used not only for plays but also for boxing, wrestling and bear baiting. The

audience sat on a semicircular bank of raised seats, with leading men occupying the front rows.

6 Romano-British farmhouses were generally long, one-story buildings with rooms leading into one another rather than off a corridor. There were usually a number of buildings in addition to the living quarters.



7 The central heating system (part of which is shown) at Chedworth Roman villa, near Cheltenham, worked by means of a hypocaust. In every Roman villa in Britain, one or more rooms were heated by the same means. The principle of the hypo-

ocaust was simple but effective. It consisted basically of a furnace below ground-level, which was fed with charcoal by a smoke hole located in an outside wall. The hot air from the furnace was drawn through channels under the floors (which were

supported by tiled pillars) and from there up through small flues in the walls. In Mediterranean lands hypocausts were usually installed only for heating the baths, but the rigorous British climate demanded a more elaborate and effective system.



8 This bronze statuette of a British ploughman was found at Piercebridge in County Durham. Belgic immigrants from northeast Gaul before and after Caesar's invasions introduced the heavy *caruca*, which went deeper than the Celtic plough (shown here). The Romans used the Belgic plough, and Celtic farmers became confined to the areas of lighter soil.

9 The Cerne giant was cut in the chalk of a hillside north of Cerne Abbas in Dorset in the late Roman period. The figure stands 55m (180ft) tall and holds a club. It has been suggested that the giant is a British adaptation of the cult of Hercules, which was early introduced into Britain by the Romans and has been found in various parts of the country.



Roman remains in Britain

The remains of the Roman occupation of Britain that survive represent only a fragment of the civilization the Romans imported. So much has disappeared largely because the Anglo-Saxons had no use for the towns, roads, fortifications and villas the Romans had constructed, and, abandoning the Roman urban style of living, returned to the land. The remains lay unappreciated until the eighteenth century, and urban development from the medieval era to the present has all but obliterated many Roman towns.

Roman roads and towns

The most universal and unmistakable evidence of their existence left by the Romans is their road system, essential to the swift movement of troops and an efficient administration. Most of the more than 8,000km (5,000 miles) of sturdily constructed roads they laid down have been overlaid by modern highways, but are easily identifiable by the straightness of their alignment [2]. The finest stretches of intact road are found in the north, where the embankment (*agger*) of the road was often metalled with stone paving as,

for instance, at Blackstone Edge [Key], in the south less durable gravel, chalk or small stones were used.

Not very much remains above ground of the towns that the network of roads was designed to link. In London fragments of the old Roman wall stand isolated, and there is a temple to Mithras similar to that found near Hadrian's Wall [8]. However, quite a good picture of life in the city can be built up from the numerous artefacts found in it [7]. At Silchester in Hampshire the complete circuit of the walls is intact, and the outline of the town's small amphitheatre is visible, as is the amphitheatre at Cirencester. At St Albans the southeasternmost of the four gates has been excavated: it was 30m (100ft) wide with massive circular towers, and from it a street 12m (40ft) wide led into the city through a triumphal arch. Little of this remains, although there are stretches of wall and tessellated pavements (pavements of small cubical coloured stones) and hypocausts (underfloor heating systems) that testify to the wealth and high standard of living of the inhabitants. There is also there a

theatre which became the town's rubbish dump in medieval times.

Something of the former grandeur of provincial capitals can be seen at Bath [3], York, Lincoln and Caerwent in Gwent, this last was a religious centre where a temple and a bathhouse have been excavated. The Multangular Tower at York still rises amid intermittent stretches of wall: at Lincoln traffic still passes through the Newport Arch formerly part of the great north gate.

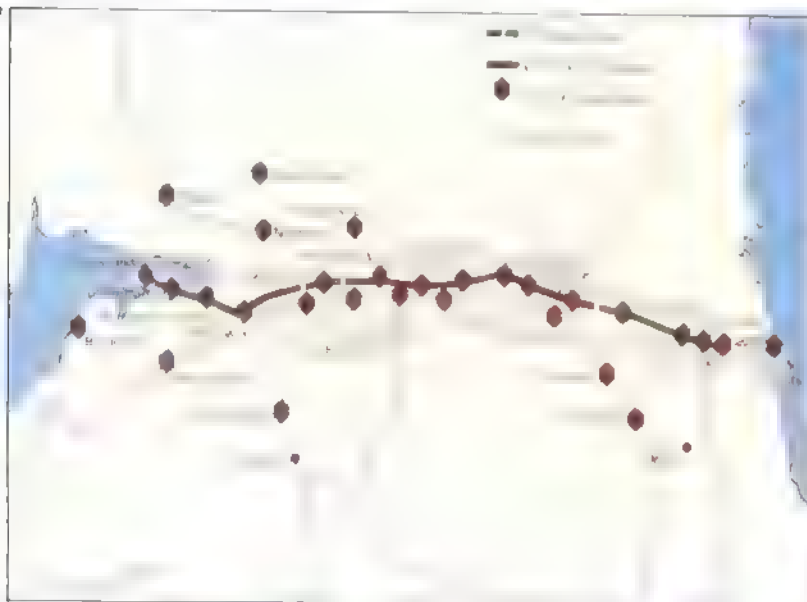
Villas in Britain

Roman villas, ranging from enormous village-like settlements to simple farmhouses of five or six rooms, are most common in the milder and more Romanized south, particularly in the southeast, the Cotswolds and Hampshire. Only a few of the more than 500 known or suspected Roman villas in Britain have been properly excavated.

The largest and most splendid of these villas was only recently discovered at Fishbourne near Chichester; it was built in the first century AD and contained not only elaborate decoration but the only Roman

CONNECTIONS

See also



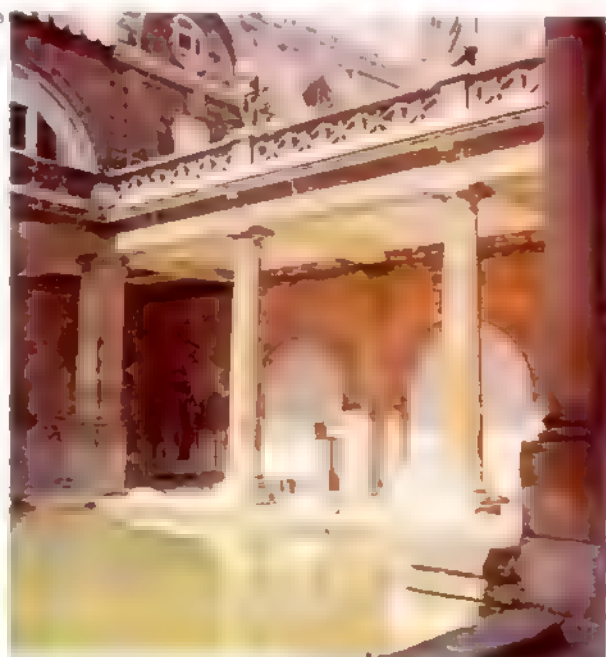
1 The vast complex of Hadrian's Wall is the largest Roman site in Britain. This map shows the course of the wall, linking the Tyne and the Solway, its many forts and the system of roads and towns that supplied it.

2 The Fosse Way, in an aerial view near Hockley, a town in Leicestershire, is typically Roman in its straightness. Roman roadbuilders always took the shortest route between two places, crossing rather than

circling hills. Running from Lincoln towards Axminster in Devon the Fosse Way, built after the first phase of conquest, was one of the earliest and straightest of all the roads constructed by the Romans in Britain.



3 The Great Bath at Aquae Sulis, modern Bath, is surrounded by a modern portico (in the Roman Doric order) but otherwise is substantially as it was in Roman times. The Great Bath is one of three plunge baths created in the 1st century AD, and filled by a natural hot spring with waters at 48.5°C (120°F) of renowned curative properties. Originally unroofed it was later covered with a great barrel vault. Roman Bath was an elegant and sophisticated spa town with numerous luxurious villas in the surrounding country. It was visited not only by Britons but also by foreigners. Numbers of inscriptions found there are dedicated to the presiding goddess of healing, Minerva Sulis, from whom the town gained its name.



4 The most elegant mirror found in ancient Britain, this fine piece of Roman silverwork was once the property of a rich citizen of Viroconium, now Wroxeter. The town was known for its large forum and splendid baths. The mirror is 29cm (11.5 in) in diameter and its skilful workmanship perhaps indicates that it was imported from Italy. The handle consists of two thick strands of interlocking silver wire each of which bears two floral roundels. The mirror is now in Shrewsbury Museum.

formal garden to have been found north of the Alps. A villa at Chedworth in Gloucestershire is particularly well preserved, both Chedworth and Fishbourne have museums attached, with a wide range of artefacts used by the inhabitants. Of other examples, Bignor Villa in Sussex is notable for its fine mosaics and the view it offers of Roman Stane Street climbing the Downs, and the villa at Lullingstone in Kent is interesting archaeologically because it is a small but elegant building that has undergone a number of structural alterations.

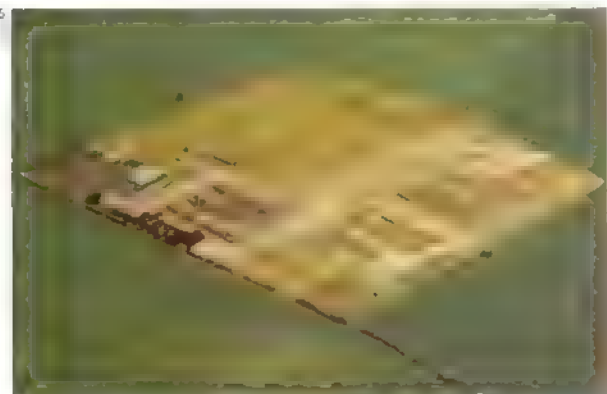
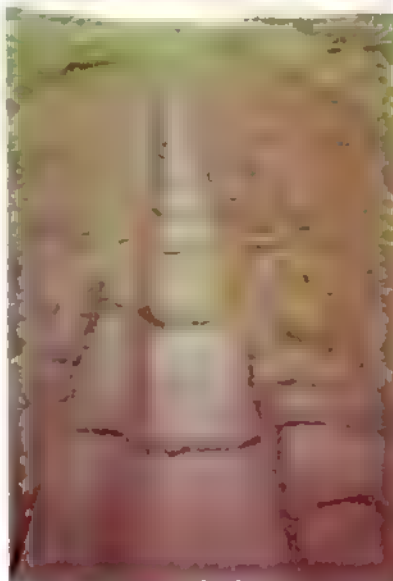
Around Hadrian's Wall

Something of what it cost to maintain and protect the Roman civilization can be seen from the straggling remnants of Hadrian's Wall [1]. The wall itself is 2m (6.5ft) high and wide enough to walk upon, it has a ditch to the north 2.75m (9ft) deep and 8m (27ft) wide. Along its length are 17 forts of which the best preserved are Chesters, Housesteads and Great Chesters, but at every Roman mile (1,480m or 1,620 yards) there was a smaller bastion. A major rampart, 3m (10ft) deep

and 6m (20ft) wide at the top, runs parallel to the wall 55 to 75m (60 to 82ft) to the south and between the wall and the rampart runs a road. The Antonine Wall is also visible in Scotland, between the Forth and Clyde.

Numerous fortresses and civilian settlements surround Hadrian's Wall to the south, notably Vindolanda, where a detailed picture of everyday military and civilian life (and the earliest example of writing in Britain) has emerged from excavations. Corstopitum (Corbridge) [5] was once an important supply base and there is now a museum there with a good collection of Romano-British sculpture, including the "Corbridge Lion". Naturally, most military remains are in the frontier areas, to the north and the west of England, but in the southeast are the forts of the Saxon Shore, erected at the end of the third century AD to combat Saxon raiders. Reculver, Richborough, Pevensey, Portchester and, on the east coast, Burgh Castle are the best examples. Lastly, the Roman *pharos* (lighthouse) at Dover testifies to that port's position as the gateway to and from the heart of the empire.

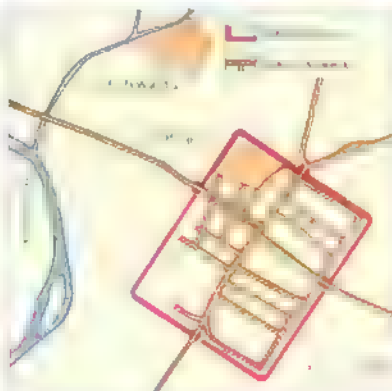
At Blackstone Edge above Littleborough in Lancashire there is a long stretch of paved Roman road almost 5m (16ft) wide. It has a shallow trough built of shaped stones that runs down its centre. This may have been for drainage, but was more probably filled with turf to provide horses or oxen with a secure footing as they toiled uphill. Beneath the stone paving so as to provide a firm base was an embankment (aggrès) of earth or rubble with a trench running on either side. This ensured that the road was drained. Not until the 18th century were roads of such a quality to be seen once more in Britain. They were built not for stimulating trade, but for the fast movement of troops and for administrative uses.



5 The Roman fort of Corstopitum, standing near Corbridge on the north bank of the River Tyne, is shown as it is now [A], and as it might have been [B]. The extensive 4th-century remains are typically square in basic plan. The town was both an important fort and supply base and a wealthy civilian settlement. Its main buildings consist of two large granaries, a general storehouse in a courtyard, several temples and a fountain fed by an aqueduct.



6 These three plans show the development of the Roman city [A] of Gloucester, in late Saxon times [B], and in the Middle Ages [C]. Its development, in a pattern recurrent in Britain, reflects its defensible site near a bend in the Severn. Saxon Gloucester contained a shrunken community inside the Roman walls. But a growing population and burgeoning trade in medieval times caused expansion especially towards the river and to the north.



7 A Roman kitchen, reconstructed in the Museum of London, is fully equipped with Roman utensils found in the city. Food was cooked in copper pans over charcoal (stored in the arch below) on a stone hearth.



8 This Mithraeum, or temple to Mithras, the favourite god of the legionaries, is in the fort of Carrawburgh on Hadrian's Wall. At the head of a nave flanked by benches for the worshippers, stood three altars, on one of which Mithras is carved with a halo.

Roman art 27 BC–AD 117

Until recently, Roman art was regarded as the bridge between the art of Greece and that of the Middle Ages, largely decadent, it provided a continuity of tradition but because it derived almost entirely from Hellenic models, it offered few original contributions. Now it is widely accepted that, while assimilating Greek styles and techniques, Roman art in fact greatly modified and developed them. Rome remodelled Hellenic art to express imperial ideals – the power of the ruler and his role as patron, benefactor and protector of an ordered society.

Greek art and artists in Rome

The Romans themselves acknowledged the superiority of Greek art and architecture and from the time of the first contacts between the two cultures a steady flow of sculptors, architects and craftsmen in all fields entered the Roman Empire from the east in order to satisfy the increasing demands of her citizens. As early as 268 BC Greek artists had designed the Roman coinage, while as Rome conquered the Greek world huge quantities of booty – from small decorative objects to

almost entire buildings, were taken to Rome. (In 187 BC Marcus Julius Brutus acquired 285 bronze and 230 marble statues during his conquests in Aetolia, while in 168 BC Aemilius Paulus seized no fewer than 100 wagon-loads of art treasures from Macedonia.) Greek artists were employed to copy and even to make pastiches of these works to meet an avid demand.

Different aesthetic attitudes and techniques separated Greek art from Roman. Greek art was produced by individuals whose names are recorded. Phidias, Parthenon, for example. Roman art was almost always anonymous, because the patron who commissioned it was of greater importance than the artisan who created it, so it is that we have the Arch of Constantine, the Baths of Caracalla and Hadrian's Wall.

By the age of Augustus (63 BC–AD 14) Greek (and to some extent Etruscan) influences had been assimilated and most architectural forms were established. Roman architecture offers an immense diversity of types and regional styles using a rich variety of local materials. Among its chief

characteristics are the development of the columnar and trabeated (post and lintel) design of the Greeks and continuation, with modifications, of the three Greek orders (Doric, Ionic and Corinthian – all in the same building, as in the Colosseum [6]). To them the Romans added the Tuscan, a variant of the Doric, and Composite, a combination of Ionic and Corinthian. All the orders were used decoratively and the elaborate Corinthian, the least popular with the Greeks, became the favourite under the Romans.

Similarly, interior decoration using marble and alabaster, paintings and mosaics was highly developed by the Romans, who placed a greater emphasis on interiors than did the Greeks. Added to this increased visual richness was a far greater variety of forms – Roman urban life prompted the demand for such structures as baths, theatres and amphitheatres, bridges, viaducts and aqueducts and multi-storied domestic buildings. Many of them were on a massive scale and were built rapidly, thanks to the Romans' introduction of concrete and brick.

The political emphasis of Roman art was

CONNECTIONS

See also



3 In the Corinthian-style Maison Carrée, Nîmes, Hellenistic architecture is modified to accommodate the special requirements of the Roman religion, which placed emphasis on the interior rather than

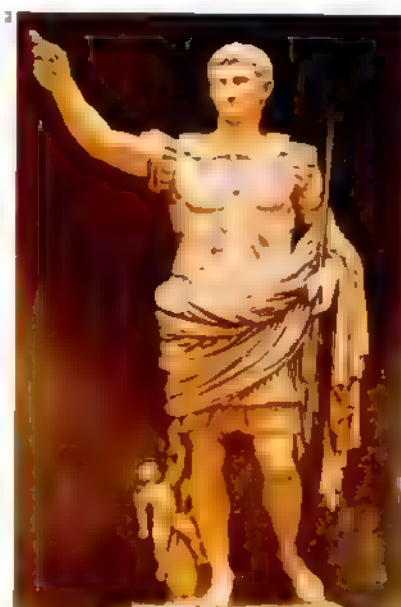
the exterior of a temple. The top two of a flight of steps form a threshold below the cella (the enclosed portion), the width of which equals the length of the portico. The colonnade is continued round the

outside of the cella but unlike that on a Greek temple is embedded in solid masonry. Modelled on prototypes in Rome it is one of the best preserved examples of Roman temple architecture of the Augustan age.

4 Augustan art was employed as a propaganda tool. In this cameo the ageless Augustus is represented as the revered ancestor leader of a cultured and refined Roman society.

1 The unsurpassed richness of the reliefs of the Atrium of Augustan Peace symbolize through a synthesis of propaganda and art, the Augustan ideals of victory, piety and peace. They combine a decorative pattern with a narrative frieze, depicting Augustus, his family and officials.

2 This powerful representation of the ageless Augustus shows him in a cuirass decorated with images commemorating a victory over the Parthians. Although based on a Greek statue, its modified stance and the forcefulness of the head mark it as a truly Roman creation in concept and style.



6 Roman portraiture developed out of the custom of producing wax death masks for funerary processions. Both this patrician and the busts of his ancestors show identifiable individuals rather than types.



especially obvious under Augustus who, in keeping with his role as bringer of peace and prosperity to the empire, was himself portrayed as a pure, magnanimous, handsome and ageless ruler [4], the serene formality and diverse imagery of Augustan art is summarized in the reliefs of the Ara Pacis (the Altar of Peace) [1]. In his programme of urban expansion he restored numerous buildings (82 temples in Rome alone) and built many others, including the magnificent temple of Mars Ultor, the Forum Augusti and the Maison Carrée, Nîmes [3].

Imperial patronage

The Augustan age had established the range of Roman architectural styles. Subsequent trends reflected the individual preferences of rulers and emphasized the intimacy of the link between the imperial patron and the objects he commissioned. Under Nero and the Flavians, for example, artists were given a freer hand and many extravagant works such as buildings with exotic octagonal, circular or oval rooms were constructed. Nero's sumptuous Golden Palace in Rome was a notable

example. After this flamboyant interlude the Trajan instigated a reaction in which utilitarian structures predominated.

Realism and portraiture

Portraiture, one of the major achievements of Roman art, developed throughout this period. It moved away from the idealism seen in the official propaganda portraits of Augustus toward a remarkable, almost brutal, realism under such later rulers as Claudius and Nero. Greek artists sought to transcend the individual in a quest for universal truths, while the Romans were concerned with accurate likenesses [2, 5]. The contrast between idealism and realism is seen particularly in portrait busts and also in the narrative reliefs on the Arch of Titus [7] and Trajan's Column.

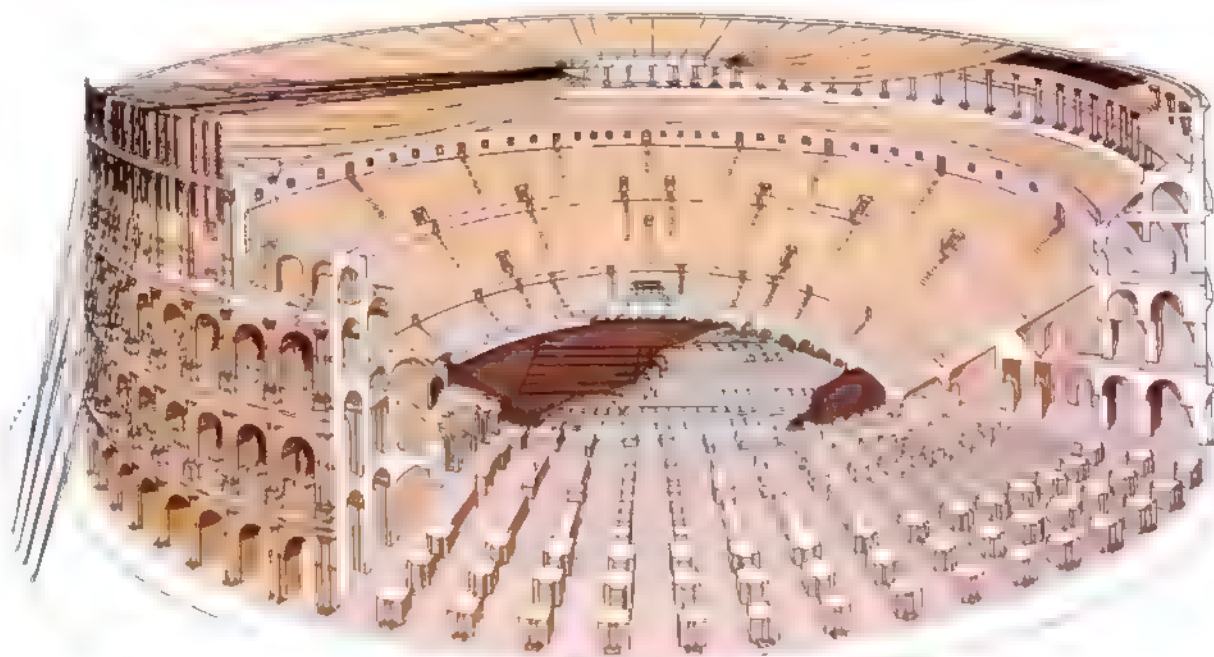
Roman painting, known chiefly from examples at Pompeii [8], was largely derived from Greek, but developed along new lines. Urban Romans maintained their traditional connection with their rural background by favouring landscapes, which became increasingly theatrical and impressionistic.

KEY



A bronze head of Augustus, first emperor of Rome, was found in Meroe, Sudan. Once part of a colossal statue, it characterizes the politically significant art of portraiture during the Roman Republic and after. In some ways idealized, it depicts Augustus in the prime of life. In fact it was made at the time of his death at the age of 76. It departs from Greek portraiture in conveying the strength of the man who symbolized the power and unity of the empire. Julian, in his *Letter to Theodorus*, explained the correct attitude to imperial portraits: 'He who loves the emperor delights to see the emperor's statues.'

6 The Flavian amphitheatre in Rome, the Colosseum - was conceived by the Emperor Vespasian and constructed between AD 72 and 81. It was one of the greatest Roman architectural achievements and served as a model for amphitheatres throughout the empire. Its outer framework and basic interior structure were composed of gigantic blocks of travertine (a kind of hard lime stone); the remainder being built of softer stone and concrete, largely faced with marble. Rising 45.7m (150ft), its four stories: the arcaded façade included columns of all three orders - Doric, Ionic and Corinthian - with the upper part decorated with numerous statues. As many as 45,000 spectators who gained admittance through 80 entrances, sat on tiers of marble seats arranged by class. They were protected from sun and rain by a movable awning.



7 Titus' military achievements are commemorated on the reliefs of the Arch of Titus, which depicts his triumphal return from the sack of Jerusalem in AD 70. The arch was built by Domitian.

8 The Pompeian painting shows a mastery in the use of colour, representation of perspective, attention to detail and appreciation of architectural interiors. These were the hallmarks of the painter's art in the first century AD.



Roman art 117–550

In the time of Trajan there was a revival of interest in the art of earlier periods which reached its apogee under his successor Hadrian (AD 76–138). The unprecedented economic prosperity of the empire, coupled with the emperor's personal patronage, led to a veritable Hellenic renaissance that persisted through Hadrian's reign and beyond, determining to a large degree the character of Roman art in the second century AD.

Hadrian's architectural revival

Hadrian's villa at Tivoli [3], described as 'probably the most beautiful collection of ruins on Italian soil', was the most remarkable of all Roman architectural complexes. He made lavish use of multi-coloured marble and of diverse ornamental architectural features including the curved architraves that were popular in the Eastern Empire.

These and the innumerable Greek and Greek-influenced masterpieces of sculpture with which Hadrian surrounded himself introduced many new and important elements into the Roman artistic repertoire. He created such emphatically Roman works as

the Pantheon – the most important domed structure of the age [1].

Under the Antonine emperors who succeeded Trajan, architecture was predominantly Greek in inspiration. Much use was made of the three orders and many massive works, such as large temple complexes, were built, especially in the Eastern Empire. A number of new architectural devices were employed, including ostentatious façades, exotically decorated (but detached and functionless) columns which visually fragmented interiors, niches in which works of sculpture were placed, and a profusion of surface decoration of all kinds.

During the rule of the Severan emperors in the third century, the rise of status and wealth of citizens in the Roman provinces in particular was asserted in a range of lavish architectural works. In an attempt to vie with the achievements of earlier emperors, such rulers as Caracalla (188–217) embarked on a number of grandiose building schemes that produced a wide range of structures. These were most notable for their impressive size and the pretentiousness of their decoration.

Among them one may include the Baths of Caracalla in Rome, the best preserved of all imperial baths. It accommodated 1,600 bathers and its central hall (*tepidarium*) was roofed by a vault soaring to a height of 54.8m (180ft), decorated with coloured marble and the most priceless statues. But in keeping with the Roman preference for interior rather than exterior elaborateness, it was largely undecorated on the outside.

The reigns of the later emperors of the third century and their preoccupation with the defence of the empire did not encourage major building programmes, other than those to do with military works. The fortified palace of Diocletian (245–313) at Spalato (Split) in Dalmatia (completed 305) stands out as the major military building of the late period and symbolizes the swing from decoration to pure functionalism.

Sculpture to the third century AD

Through Hadrian's influence, the earnest majesty of the sculpture from Trajan's era was replaced by Greek works in which sensual beauty predominates.

CONNECTIONS

See also

1 The Pantheon
2 The Portonaccio Battle Sarcophagus
3 Hadrian's Villa
4 The equestrian statue of Marcus Aurelius
5 The Colosseum
6 The Arch of Constantine
7 The Mausoleum at Halicarnassus
8 The Parthenon
9 The Temple of Apollo at Delphi
10 The Temple of Concordia at Agrigento
11 The Temple of Vesta at Rome
12 The Temple of Mars at Capua
13 The Temple of Minerva at Paestum
14 The Temple of Juno at Capri
15 The Temple of Isis at Philae
16 The Temple of Isis at Abydos
17 The Temple of Isis at Dendera
18 The Temple of Isis at Edfu
19 The Temple of Isis at Kom Ombo
20 The Temple of Isis at Assuan

1 The Pantheon Rome (c. AD 118–125) is one of the most influential buildings in the history of architecture and has been described as the first major monument to be composed entirely as an interior. Rebuilt completely by Hadrian, it remained the world's largest domed structure until modern times and is the oldest building with its original roof intact. The portico, supported by 16 granite columns, is grandiose but conventional. But the dome is perfect hemisphere is remarkable not only for its size – 43.2m (142ft) in diameter – but for its apparent lightness, an illusion skilfully created by the use of coffering, once stuccoed and gilded, and a single central light source. The actual method of construction is still not fully understood but involved a highly sophisticated and deep grasp of concrete technology.



2 The Portonaccio Battle Sarcophagus depicts Romans in a frantic struggle with barbarians and captures the moment when victory is unquestionably the Roman commander's.

The Emperor Hostilian (d. 251) detached from the mass of bodies, completely dominates the scene. The craftsmanship represents a theatrical example of mid-3rd century art.



3 Hadrian's Villa (c. AD 130) the most extravagant of all Roman country palaces, represents the eclectic tastes and restless architectural experimentation of a Roman ruler with unlimited resources. No single building is on a grand scale but the whole – an immense variety of courtyards, fountains, statues, pillars, pools, mosaics and individual buildings – covers 18km² (7sq miles) of country side on the edge of the Roman Campagna and is skilfully blended into the landscape.



4 This bronze equestrian statue of Marcus Aurelius in Rome dates from the Antonine period when idealized figures began to displace the realism found under Trajan. Once gilded and with a figure of a barbarian under the horse's raised hoof, it was preserved while other Roman bronzes perished in the mistaken belief that it depicted the Christian Emperor, Constantine. The statue influenced the work of such Renaissance masters as Donatello (c. 1386–1466).

From c. AD 100, for reasons that are not fully understood, burial began to replace cremation as the customary method of disposing of the dead throughout the Roman Empire. From this time tombs became more elaborate and the art of making decorated sarcophagi was developed. In the late empire battle scenes became particularly popular on the sarcophagi – such as the Portonaccio Sarcophagus [2] – of military leaders.

In the Antonine period statues became more massive and elaborate. The use of chisels for carving stone was steadily superseded by the skilful use of the drill which enabled the production of more decorative effects in drapery and hair. Fine bronzes, such as the powerful equestrian statue of Marcus Aurelius (121–80) [4], were produced but few have survived.

Two particular types of relief co-existed from this period – a primitive, almost folk-art style, as shown on the column of Marcus Aurelius and the persistence of Greek classical elements – two streams of artistic endeavour that came together in the Arch of Constantine [5].

Under the Severan emperors massive statues and reliefs were often so elaborate that they virtually obscured entire architectural surfaces.

Sculpture of the turbulent third century was of variable quality – reliefs became cruder and there was a trend toward mannerism and abstract symmetry, which involved reintroduction of the chisel in place of the drill. This resulted in the angularity found in such stark and impressive works as the colossal head of Constantine [Key].

Painting and crafts

Painting did not apparently develop beyond the so-called Fourth Style identified at Pompeii. Mosaic, originally a flooring technique developed rapidly in the second and third centuries and virtually replaced painting as a method of decorating walls [8].

Despite several imperial decrees against personal extravagance, fine jewellery, splendid ivory-inlaid furniture and a wide range of metalwork, such as the silverware found at Mildenhall [England] [6], were popular throughout the empire.

K.F.Y.



This head from the colossal statue of the Emperor Constantine in Rome is the largest statue of its age – ten times life size.

It was sculpted in c. AD 313 and was the peak of imperial art.



5 The Arch of Constantine is decorated with a rich variety of panel reliefs and statues many of which were plundered from earlier public monuments. It thus summarizes the major artistic styles from Trajan to Constantine. It indicates a change towards painting and mosaics.



6 This great dish part of the Roman silver hoard known as the Mildenhall Treasure (4th century AD), measures almost 60cm (2ft) across and weighs 8.3kg (18.3lb). The outer frieze represents the triumph of Bacchus, god of wine, over Hercules. Other mythological figures, including Neptune, also appear.

7 In this gold medallion minted at Thessalonica, the Emperor Constantine appears in a portrait that echoes those of Augustus. The restoration of order to the Roman Empire under Diocletian and Constantine prompted

the standardization of Roman coinage. While achieving a high degree of craftsmanship, representations of rulers became stylized with religious overtones, a typical aspect of late Roman art foreshadowing that of Byzantium.

8 The technique of mosaic, invented by the Greeks, was readily adopted by the Romans who perfected it and applied it on a large scale. Many local styles emerged in Italy and such provinces as Britain and Tunisia. Among the subjects employed are stories from classical mythology, interpretations of classical Greek paintings, landscapes, portraits, elaborate decorative motifs and particularly scenes of vigorous action – chariot racing, hunting and gladiatorial spectacles. By the 3rd century mosaic work had, in many instances, superseded the three-dimensional representations of gods and cult figures, as in mosaic portraits.

8



Christ and the Apostles

Jesus Christ was an orthodox Jew. Born in about 4 BC, he was crucified outside the walls of Jerusalem in about AD 30. He certainly gave Christianity its original impetus, but it is less certain that he meant to found a Church. His disciples came to think of him as the promised "Messiah" (the Hebrew form of the Greek "Christ"), and then gave to him the value and honour they reserved for the one God alone.

The figure of Jesus and his teaching still dominates Western imagination nearly 2,000 years after his death. Today more than 1,000 million people in many parts of the world describe themselves as Christians.

When Jesus lived there was in Judaism a variety of emphases and interpretations leading to controversies between parties. The evidence of the Dead Sea Scrolls [4] and other contemporary sources suggest that the teaching of Jesus had much in common with some of the sects current during his lifetime.

Responsibility for his death is still disputed. According to the Gospels he was crucified on the orders of the Roman governor at the insistence of the Jewish religious

establishment. The Gospels suggest he was condemned for blasphemy (which was a capital offence) because he claimed to be the Messiah, although such a claim was not technically blasphemous in Jewish law.

The historical Jesus

The only detailed records we have of the life of Jesus are the Gospels, which were written by Christians for Christians. What were believed to be sayings of Jesus and stories about him circulated first by word of mouth. Collections of such sayings and stories were doubtless later written down, and it was from such sources that the four Gospels were compiled. They were written in Greek, although Jesus spoke in Aramaic. The first of the Gospels, St Mark's, was written in about AD 62.

The Gospels present us with highly interpreted history, and it has been impossible to disentangle fact from interpretation.

The earliest records (St Paul's Epistles and St Mark's Gospel) do not describe Jesus' birth. According to the later accounts of St Luke and St Matthew Jesus was born at Bethlehem of a virgin mother, Mary; his concep-

tion in her womb being due to the creative power of God's spirit. Jesus' home town was Nazareth in Galilee [1].

Jesus was baptized in about 26, when he was about 30, by his cousin John the Baptist [5]. Immediately after his baptism he went into spiritual retreat in the desert. Then he began teaching in Galilee, healing the sick in body and mind and proclaiming the imminent arrival of the kingdom (more accurately the kingly rule) of God.

Many have found its essence distilled in the Sermon on the Mount - a compilation of his sayings masterfully arranged. It emphasizes the need for spiritual rebirth and describes the heroic goodness that follows as a consequence. The teaching of Jesus had a challenging directness. He called men away from the letter of the Jewish law to its spirit. This led him to criticize severely the Jewish leaders of his day.

Arrest and crucifixion

Whatever the precise form of his criticisms, Jesus was marked down by the religious authorities as a public enemy. And this con-

CONNECTIONS

See also



1 Christianity began in the northern Jewish province of Galilee, away from the religious centre of Jerusalem, and Jesus spent most of his ministry among simple country people. Traditionally, some Apostles travelled as far as Persia and India. The most widely travelled Apostle Paul was a Jew but a Roman citizen born at Tarsus in what is now Turkey. He took the Gospel both to Asia Minor and to Greece.

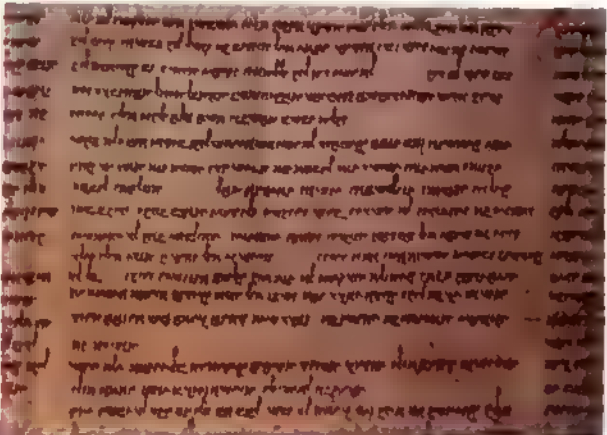
2 Capernaum, where the remains of this synagogue are still visible, is at the north end of the Sea of Galilee. It is mentioned several times in the Gospels in connection with Jesus' mission.



3 Christ is transfigured with Elias and Moses, representing the Prophets and the Law, while John Peter and James crouch before the light in this painting from a 12th century church in Cyprus.

4 The Dead Sea Scrolls were discovered between 1947 and 1956 in caves to the northwestern end of the Dead Sea. They contain most of the books of the Old Testament and some other hitherto un-

known Jewish writings in Hebrew and Aramaic from a monastic community at Qumran. Most of the manuscripts are made from leather and papyrus and are kept at the Israel Museum in Jerusalem.



cerned the civil (Roman) authorities because his wide popular support might involve disturbances. He probably realized that his life was threatened. On a visit to Jerusalem in about AD 30 to observe the Jewish Passover. He provided his enemies with an occasion to arrest him by physically assaulting the money changers and traders in the Temple. He was eventually arrested by the Temple guard while he was praying in the Garden of Gethsemane – Judas Iscariot no doubt leading them to the place and betraying the identity of Jesus by kissing him. The Jewish leaders handed him over to the Roman governor, Pontius Pilate, who ordered his crucifixion (a Roman form of execution for slaves and low criminals) with two thieves at Golgotha.

The early Church

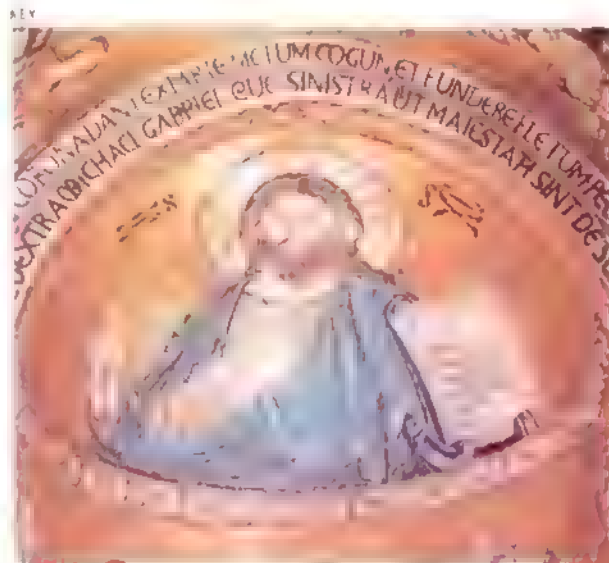
From the third day after the crucifixion the followers of Jesus became utterly convinced that he was alive. They were sure that he appeared and spoke to them as recognizably himself though now glorified. At a slightly later date the news was spread that certain women had gone to his tomb to anoint his

dead body and had found the tomb empty, except for the graveclothes.

At the harvest festival of Pentecost, some five weeks after the crucifixion, the disciples believed themselves visited by the spirit of God sent down by the exalted Jesus. From then on they went about preaching that Jesus was the Messiah crucified and raised from the dead, through whom eternal salvation was offered to all.

Paul became the chief Apostle to the Gentiles (non-Jews) after a dramatic conversion to Jesus' teachings on the road to Damascus. Greek-speaking and a Roman citizen, he began the transformation of Christianity into a world religion for everybody. He travelled extensively, preaching in Asia Minor and Greece [8]. He was eventually arrested in Jerusalem, used his right as a Roman citizen to appeal to Caesar, and is said to have been executed in Rome at the same time as St Peter, about AD 60.

According to legend, St John, "the disciple whom Jesus loved", lived to an old age in exile. St John's Gospel is a profound meditation on the life and teaching of Jesus.



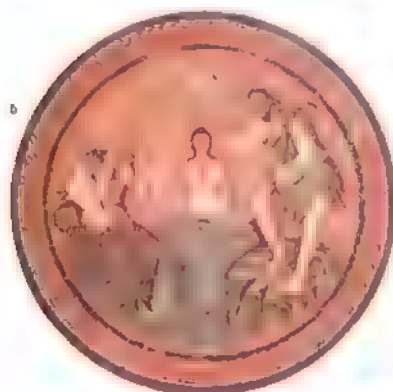
The image or name of Jesus Christ and the Gospel open at the

words "I am the Light of the World" appear in many mo

saics, including this 12th-century work on a ceiling in Palermo

5 Jesus was baptized in the River Jordan by John the Baptist. In this sixth-century mosaic from Ravenna, the figure

on the left represents the river god of the Jordan. Baptism is the method of entry into the Christian community



6 Jesus celebrated his Last Supper with his disciples on the night before his death. This meal is the distinctive Christian ceremony called the Lord's Supper, Holy Communion, Eucharist, Liturgy and Mass. This sixth-century mosaic at Ravenna shows 11 disciples reclining with Christ. The two fish recall the miraculous feeding of the multitude

7 A fifth-century ivory carving depicts the women who went to the rock-hewn sepulchre of Jesus at dawn on Easter Sunday and found that he had risen from the dead



8 Paul went on his first preaching tour to Asia Minor. A

return visit continued over into Greece and a third journey

covered much the same ground. The final journey by

sea went through Crete, Malta and Sicily to Rome



Rome: soldier emperors to Constantine

After the murder of the Roman Emperor Commodus in AD 193 four rivals disputed the imperial succession. There was a costly civil war in which several major cities including Antioch, Byzantium and Lyons were sacked before Septimius Severus (reigned 193-211) was successful. Order was restored, but the military basis of imperial power then became more obvious.

Political anarchy and religious persecution

Septimius was succeeded by a family dynasty but because a settled system of succession was lacking and because the legions increasingly realized that they had the power both to elect and to destroy emperors [1] there was continual unrest, with rivals being set up by local troops. In the 74 years from the death of Septimius to the accession of Diocletian (245-313) in 284 there were 27 emperors and many usurpers.

This political anarchy came at the worst possible time, for the barbarians were again pressing on the empire's frontiers. In 236 Alemanni and Franks crossed into Gaul, and Goths poured over the Danube in 24

raiding the Balkans and killing the Emperor Decius (200-251). The Romans were forced either to allow the barbarians to settle within the frontiers or to buy them off.

In the east a new Persian dynasty, the Sassanids, invaded Syria and Asia Minor and then captured the Emperor Valerian (193-260) in 260 [2]. His son and co-regent Gallienus (reigned 253-60) had to put down five rivals before recovering the lost eastern provinces. Aurelian (reigned 270-75) finally abandoned Dacia but began restoring the Danube and Rhine frontiers. The work was completed by Probus (reigned 276-82).

The unrest was accompanied by a break down of civil order and a collapse of the economy. Inevitably, men searched for scapegoats and the most obvious ones were the Christians. The Romans had always been highly tolerant of religions provided they accepted the divinity of the emperor, and many Oriental cults, including the worship of Mithras and Isis, had become widely popular. But the Christians, who refused to sacrifice to the emperor, were an easy target. They were barbarously persecuted by Decius and even

more so by Valerian (reigned 253-60).

Despite all the disasters, civilized life continued and the third century saw the work of some of the greatest commentators of Roman law - Papinian, Paulus and Ulpian - and considerable literary achievements.

Division of the empire

There was a desperate need for reorganization and in 285 Diocletian established a totally new governmental system [Key]. The empire was divided into Eastern and Western parts, each ruled by an 'Augustus' with a 'Caesar' as his deputy. The Augusti were to resign after 20 years and be succeeded by their Caesars. The imperial court moved away from Rome [4] and the provinces were replaced by dioceses ruled by a massive new bureaucracy and a reformed army. The whole system was supported by a new currency and heavy taxation and the emperors became absolute monarchs.

Diocletian's reforms did not solve the succession problem and when he and his co-Augustus Maximian (reigned 286-305) resigned in 305 chaos followed. In 312

CONNECTIONS

See also

1 The Praetorian Guard were the elite bodyguards of the emperors. They were the first body of Roman soldiers to realize they had the power to make emperors and, if need be, to break them too.

2 The Emperor Valerian was forced to kneel to the Persian ruler in the worst disaster that befell Rome in the third century. The internal chaos of the empire coincided with renewed pressure from barbarian tribes in the West and from the Persians in the East. The cohesion of the empire was further weakened as threatened areas took action independently of Rome to defend themselves.

3 Roman persecution of Christians. A) which reached its height under Decius and Valerian, contrasted with general religious toleration limited only by the importance given to the unity of the empire. B) Provided the adherents of a religion were prepared to pay homage to the divine emperor they were free to worship and make converts. Many Eastern cults such as Mithraism flourished but the exclusiveness of Christians and their refusal to do homage caused them to be treated as a treasonable sect and to be deprived of citizenship.

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Constantine (c. 285–337) emerged victorious in the Western Empire in a battle at the Milvian Bridge, during which his armies fought under the Christian cross. In gratitude he made Christianity the official religion of the empire. In 324, on the death of the Eastern Emperor Licinius (reigned 311–23), Constantine reunited the empire and moved his capital to Byzantium, which was rebuilt as a totally Christian city with the name Constantinople. Henceforth the Eastern Empire and Christianity were to be closely identified.

Constantine's death in 337 led to a division of the empire between his two sons, fighting followed until it was briefly reunited in 353. In 355, the Western Empire was placed under Julian, who briefly reunited the empire between 361 and 363. But thereafter the split became permanent.

The difference between the two halves was steadily being emphasized by the presence of barbarians in the West [6], as more tribes were settled within the frontiers, and by the development of a Christianity-dominated absolute empire in the East. In

the West the army was by then almost entirely recruited from barbarians, as a result, its resistance was severely reduced.

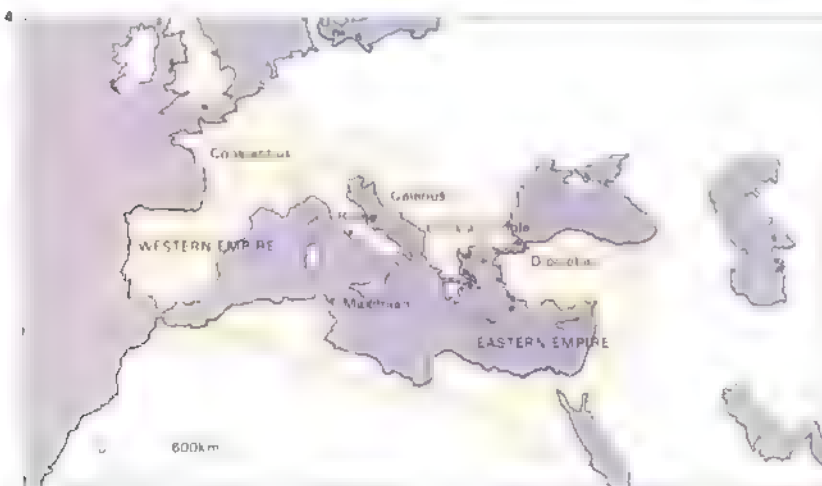
Major barbarian invasions

Towards the end of the fourth century came renewed major invasions, in 376 the Visigoths were allowed to cross the Danube to settle, but they were so badly treated that they revolted in 378 and killed the Emperor Valens (c. 328–78) at Adrianople.

Other groups also crossed the frontiers, the Vandals moved through France and Spain to set up an independent kingdom in North Africa, Jutes, Angles and Saxons occupied Britain, Franks and Burgundians settled in northern France and Ostrogoths in Italy. By the middle of the fifth century the Western Empire had been almost completely occupied by barbarians, although a Romanized administration and culture survived. It came as no great surprise when German troops in Italy elected Odoacer, the Ostrogoth (reigned 476–93), as king and he deposed Romulus Augustulus (reigned 475–6) ending emperors in the West.



Representing Diocletian's tetrarchy The relief from St Mark's in Venice shows two Augusti clasping their Caesars, the deputies who would succeed them after 20 years. The chaos and disasters of the 3rd century forced Diocletian to impose major changes on the empire. His reforms, which were the first alterations to the system established by Augustus, can be seen as formalizing the practices of the years of anarchy when emperors reigned on an ad hoc basis to barbarian invasions and civil strife. The emperor and his deputies became full-time military leaders and the whole system was supported by stringent new laws.



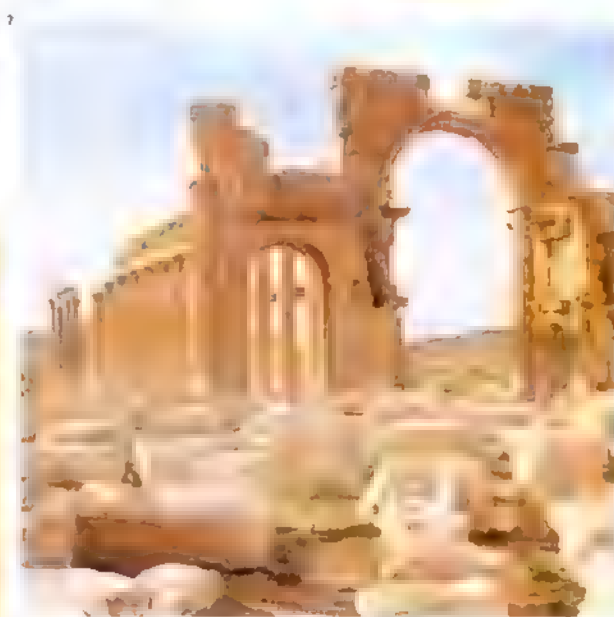
4 The reforms of Diocletian fundamentally altered the empire, splitting it into two almost

independent halves. He and his Caesar, Galerius, were in charge of the crucial Danube and Eastern

provinces, while Maximian and Constantius ruled the West. The emperors moved their head

quarters nearer to the frontiers. Diocletian ruled from Nicomedia (near Constantinople).

5 Constantine the Great made the momentous decision that Christianity was to be the official religion of the empire. He also reunited the empire and moved the imperial capital from Rome to the strategically placed city of Byzantium (Constantinople), which he had rebuilt as a purely Christian city. Constantine identified with his new faith and put the whole weight of empire behind it.



6 This detail from a sarcophagus shows Roman soldiers subduing barbarians. Some fighting emperors during the third century were able to hold the frontiers and push back invaders, but generally the barbarians were allowed to enter the

empire, settle and establish a military and administrative structure. During the fourth and early fifth centuries in the West the barbarian kingdoms took shape and their rule merged almost imperceptibly with the decline of the empire.

7 The influence of the Roman Empire continued as a civilizing force long after its fall. The massive grandeur of its buildings, such as those at Palmyra, remained as a visible reminder, while Rome's intellectual legacy was permanent.

The baths at Aquae
Sulis are known
as the Roman Bath in
the County of Avon.
England, remaining
of the most striking
examples of the
Roman occupation
of a previously
a prehistoric
country.



Remains of the Roman lighthouse erected at Dover during the 1st or 2nd century BC. A monument to the technological sophistication of the Romans. Illumination was by means of a fire lit at the top.



Early Oriental and Western science

Modern scholarship has made it clear that in Roman times there was considerable cross-fertilization between different civilizations. The Roman Empire itself, with its emphasis on foreign trade, provided regular links between the diverse civilizations of Europe, Africa, India and even China.

The extent of Roman technology

The vastness of the empire posed immense problems in peace-keeping, in government and administration. On these counts the Romans excelled. They developed military technology, constructing large mechanized catapults, mechanical arrow ejectors and crossbows originally invented by the Chinese in the third century BC, elaborate battering rams and wheeled siege towers, Assyrian inventions of the ninth century BC. The large standing army required not only weapons but clothing and food and here again the Romans used the most modern techniques, establishing in the south of France, for instance, water-operated multiple flour-grinding mills.

Roman roads stretched throughout the empire. Most were gravelled or stone set on

concrete with curbstones and drainage channels. Since the empire extended into climates much colder and damper than that of Rome, forms of central heating and damp-proofing were common, at least in the houses built for Roman officials. Heated baths were also common in cities and army camps all over the empire. For their shipping, the Romans followed the example of Sostratos who, in the third century BC, built a huge lighthouse at Alexandria and constructed lighthouses at many other ports [1].

Yet, expert though the Romans were in the art of running an empire and in using up-to-date technology to help them, they made no progress in pure science. Such science as they knew they obtained from the Greeks. In the first century AD, Pliny (23-79) had written his *Naturalis Historia*, a vast compendium on all known science, but this was primarily a compilation of Greek science. Galen (c. 130-c. 200) [2], the greatest medical man of Roman times, was a Greek national. As a physician and surgeon to the gladiators, Galen obtained valuable knowledge about wounds and various internal

organs and later he became personal physician to the Emperor Marcus Aurelius (121-180). He took many pupils and promoted his interpretation of the operation of the human body, which was based on the idea that the liver was the main organ of the venous and arterial systems.

Advances in other centres

It was not until the third century AD that there was a turn from the Greek concentration on geometry. Then, in Alexandria, the mathematicians Diophantus and Pappus recommended the study of numbers and evolved a kind of algebra. Their work was extended by later generations and particularly by the Muslim civilization, where algebra became highly developed. The "arabic" numerals [Key], which had originally been devised in India, were adopted.

Arithmetic and a form of algebra also characterized Chinese mathematics. It was in China that the abacus was invented and it became such a useful calculator that it is still common in Japan today.

In the West, some 1,800 years and more

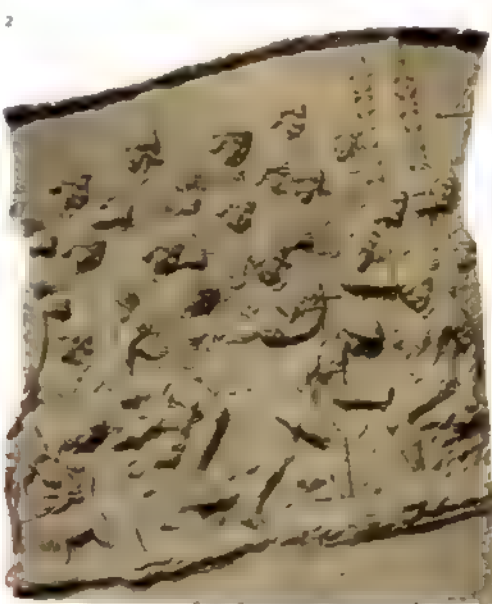
CONNECTIONS

See also

214 1000
China 1000 BC
AD 1000
China 1000 BC

1 A Roman lighthouse, erected at Dover, was one of many such aids to shipping, a typical use of technology by the vast and efficient Roman administration. Lighting was by means of a

fire, usually of wood and tarry substances, contained at the top of the building. The lighthouse was built in a stepped form like the famous Pharos at Alexandria (3rd century BC).

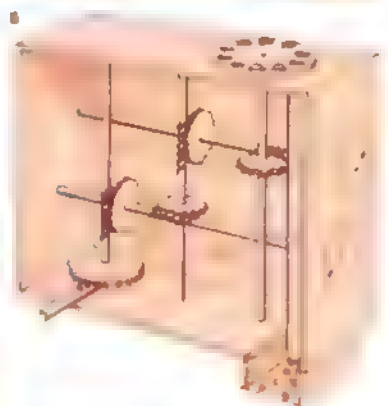


2 Trajan's Column was erected by the Roman Emperor Trajan (c. 53-117) to celebrate his victories. Built of marble and more than 30m (100ft) high, it was set up in the Forum in Rome in

113. This section shows Roman legionaries being treated on the battlefield. It was here and in gladiatorial combat that Galen and other surgeons learned the basics of anatomy.



3 A crane is depicted on this section of Trajan's Column. The pulley block and ropes and the men inside the treadmill at the bottom can be seen clearly. Cranes such as this were found well into medieval times.



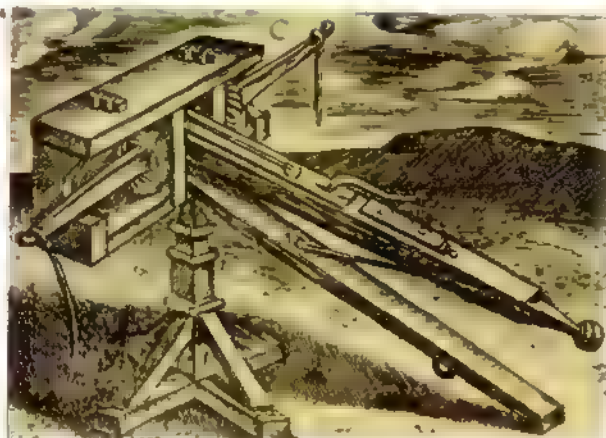
5 Roman taximeters were operated by the wheels of the carriages. Worms and gear wheels reduced the rotations until dials and a counter could be run at a convenient speed. The dials had pointers that indicated the distance

travelled by the carriage. The counting disc (at the top of the taximeter) allowed pebbles to drop into a holder at the bottom of the meter. By counting the number of pebbles in the holder the fare could easily be worked out.



4 A scythion was a type of mechanical crossbow that was so large it had to be mounted on a stand and fired by a trigger mechanism. This improvement is usually credited to the mechanician Philo who worked at Byzantium in the

present-day site of Istanbul), sometime between 200 and 250 BC. This engraving is taken from *Polytechnicon*, a book by Justus Lipsius (1547-1606) which was concerned with Roman armaments and was published in Antwerp in 1605.



before the Roman conquest, astronomical observations were being made in Britain with great accuracy by using stone circles, of which Stonehenge is probably the greatest example. The Chaldeans (flourished 1000-540 BC) had discovered that eclipses occurred in cycles. Yet it was not until early in the second century AD that accurate eclipse predictions and studies of the earth and heavens were regularly made in China, however in the same period technological advances were accomplished. Chang Heng had invented a seismograph for recording earthquake shocks and the art of papermaking was established [7]. By the eighth and ninth centuries AD the Chinese had also invented gunpowder [6] and block printing, as well as the first clock ever to be made with an escapement - the large water clock in Sian [8]. Moreover Chinese technology brought in the first efficient form of horse harness, the sternpost rudder for ships, the manufacture of silk and most importantly, the compass which was in widespread use by the 1100s.

Alchemy, the forerunner of chemistry, was an ancient art of obscure origins that

sought, among other things, to transform base metals such as lead into silver and gold. Carried westward, it was developed in Alexandria particularly by Zosimos in the fourth century AD, along with the important process of distillation.

Medicine and the Chinese influence

Medicine, too, was not free of mysticism and superstition, but herbal drugs were discovered and used by the Chinese, who in their pharmacopoeia had drugs against malaria and for bronchial diseases, while in India more than 500 drugs came into use, including an early form of tranquilizer. It was in China that the technique of acupuncture evolved.

After the Greeks the progress of science was slow and piecemeal, in the West at least, and seems virtually to have halted for some 600 years. Fortunately, though, the Muslims collected and collated all knowledge of Greek science and, with additions from India and the Far East, all this information filtered through to the West from the twelfth century AD onwards, thus paving the way for the great scientific revival 400 years later.

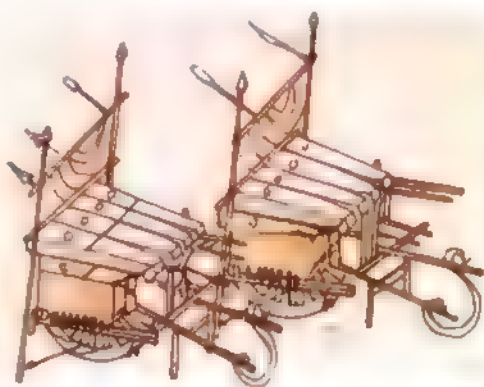


Pythagoras (right), using an abacus.

seems to be competing against Boethius (475-

524) (left) who is using arabic numerals.

6 Gunpowder, first
Invented by the Chinese, was originally used for fireworks and only later adapted for war. Shown here as early wheelbarrow-like rocket launchers. Gunpowder was first mentioned by Chinese Taoist alchemists about five centuries before it appeared in Europe (c. 13th century AD). The development of the gun is more obscure because at first gunpowder was used only in rockets and bombs.

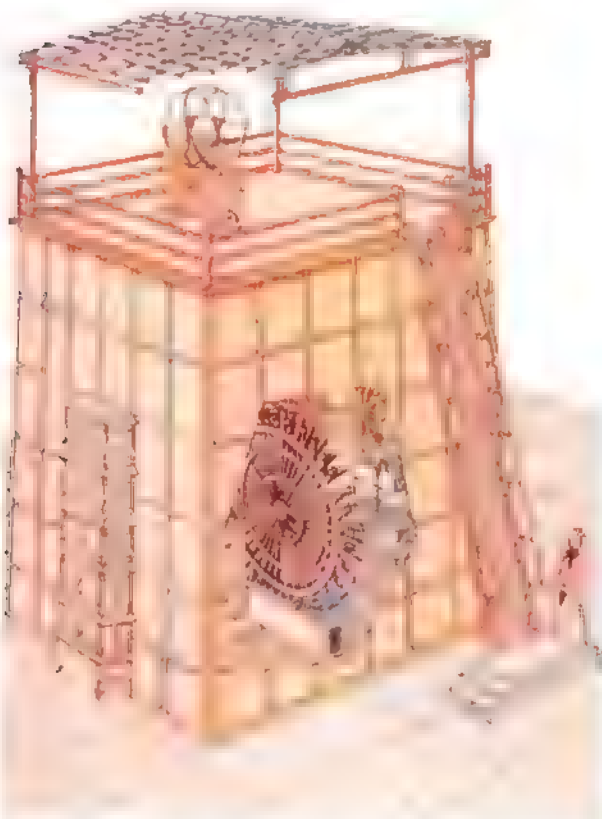


8 The first mechanical clock was Chinese, invented in the 8th century by Li Hsing. It was driven by an axlebar driven by a waterwheel, which acted as an escapement - the essence of mechanical clocks. This clock was built by Su Sung about 1050. The clock was probably known in the West in the 9th century. The first European clocks with mechanical escapements were made in the 13th century.



7 Paper was another Chinese invention that only gradually reached the West over many centuries. Known in China in the 1st century AD, the necessary technique did not reach the Muslim world until the 8th century, and it was not until 100 years before knowledge of it penetrated to Spain and southern France. Once in the West, it still took 200 years more to reach Germany and 100 more to reach England.

9 Scientific chemistry developed slowly. Practical chemistry, on the other hand, was part of everyday life - as epitomized here in this copy of a 12th century Arabic manuscript showing the preparation of perfumes. Attempts were made by the Greeks and the Muslims to classify natural substances and build chemistry into a science but success did not come until the 17th century.



India 300–1200

After centuries of political fragmentation and foreign domination northern India was once more united under the Gupta dynasty (c. AD 320–550). India's classical age. In southern India another great state gradually took shape under the Pallavas.

The Gupta dynasty and its empire

The Gupta kings, especially Samudra Gupta (reigned 330–75), Chandra Gupta II (reigned 375–415) and Kumara Gupta (reigned 415–55), founded and maintained, both by conquest and diplomacy, a great empire controlling nearly all of northern India. Good communications, security and relative prosperity created an atmosphere in which Indian culture attained unequalled heights. Thus the works of the poet Kalidasa (flourished fifth century AD) achieved such a degree of perfection that they were often imitated but never surpassed. In art and architecture, too, Indian genius revealed itself in its most accomplished form of refinement and symbolism, but without the overemphasis of detail that typifies much Indian art after about the seventh century.

The material prosperity of India in this period is emphasized in the accounts of a Chinese Buddhist pilgrim, Fa-hsien (flourished 399–414), who visited India in the fifth century, and by the discovery of many gold coins of the Gupta Empire [5].

At the beginning of the sixth century the Huns invaded India from the northwest and penetrated as far as central India. This invasion has often been described as the main cause of the downfall of the Guptas, but it can be argued that the Huns would never have succeeded if the Gupta Empire had not declined owing to internal factors.

The expulsion of the Huns from India

Although the Huns were expelled after 30 years, northern India became divided between rival powers in Surashtra, Uttar Pradesh and Bengal. There were important changes too in southern India in the present states of Madras and Kerala. A prosperous and cultured society, as reflected in classical Tamil literature, flourished in this region, at least from the beginning of the Christian era. In the fourth century AD, the Pallavas made

Kanchi (Conjeevaram) the centre of a large kingdom. Although much smaller than the Gupta Empire in the north it was still of great importance. The Pallavas established a successful form of power-sharing between central and local government, which promoted political stability. The east coast of southern India remained under Pallava control until about 880, and from then until 1200 under that of the Cholas.

The Pallavas patronized the Brahmins who, in their turn, provided excellent educational facilities. In art and architecture a particular Dravidian style (named after the language spoken in central and southern India) culminating in the monolithic sanctuaries and rock reliefs of Mamallapuram (the "Seven Pagodas"), was developed [2]. The Pallavas contributed more than any other Indians to the expansion of Indian civilization into South-East Asia.

The influence of Harsha of Kanauj

Most of northern India was temporarily united by Harsha of Kanauj (606–47) whose career, admirably described by a Sanskrit

CONNECTIONS

See also
PAGES 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.



1 On the relief panel of this temple of the Gupta period, Vishnu is represented during his cosmic sleep on the coils of the seven-headed Naga. His consort, Lakshmi, is at his feet.

2 The greatest temple foundation by the Pallava dynasty of Kanchi, southern India, is the complex of Mamallapuram or Mahabalipuram, popularly known as the Seven Pagodas, south of

Madras. The complex built in 625–74 comprises a number of beautiful monolithic structures (the so-called Rathas) and this splendid Shore Temple, dedicated to Shiva.



3 Frescoes depicting beautiful maidens are painted on the side of a huge rock at Sigiriya, Sri Lanka, where a fortified royal residence was built in the fifth century.

4 One of the most striking forms of the god Shiva is that of the four-armed Nataraja, dancing on top of a demon and surrounded by a



4 One of the most striking forms of the god Shiva is that of the four-armed Nataraja, dancing on top of a demon and surrounded by a

halo with flames destroying the world at the end of an aeon. This is one of the finest bronzes of the Chola period (eleventh century).



5 The numerous gold coins of the Guptas (the Bayana hoard alone contains 1 021 specimens) are an important source for the history of the period. The distribution gives an idea of the areas controlled by various Gupta kings and the frequency of the minting reflects economic activity. The representations show how the Gupta kings wished the world to see them. This king appears as a fearless hunter slaughtering a lion with a bow and arrow.

writer (Banu) and a Chinese pilgrim (Hsuan Tsang) records reflects high standards of government and reasonable prosperity.

After the time of Harsha, central India showed progressive political fragmentation with larger states tending to split into smaller ones which at first paid homage to the central authority but gradually became independent. Harsha's capital, Kanauj, was made the capital of the Pratihara dynasty. The Pratihars ruled over the present states of Uttar Pradesh, Punjab and Rajasthan but before the end of the ninth century their effective authority was limited to parts of the Punjab and Uttar Pradesh while different Rajput dynasties, originally of tribal descent, ruled Rajasthan, Bihar and Bengal were under the Buddhist Pala dynasty (c. 750-1150) but from the tenth century they shared with minor dynasties.

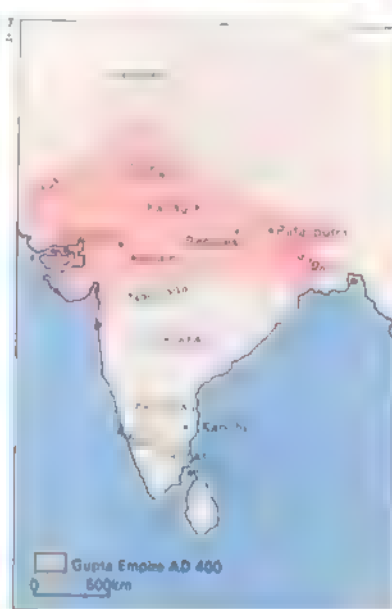
During such divisions the Muslim Mahmud of Ghazni (Afghanistan) (971-1030) invaded and plundered northern India many times between 1000 and 1026 [7]. These were destructive raids, carried out mainly for booty. Although many Indian

armies fought bravely, their resistance proved ineffective through internal feuds and military miscalculations, such as over-reliance on elephants. Little political but not cultural, decline led to new Muslim invasions and by the end of the twelfth century most of northern India had come under the control of the Muslim Sultanate of Delhi.

Sanskrit literature of the post-Harsha period has survived in few works though the classical era has been traced. Its most important feature is that even before the Kanauj conquest, Sanskrit literature was limited to the religious sphere of the greatest achievements being the temples of Orissa and Kanauj, and the late period.

There was no rebellion within India which could have stopped the greatest Indian empire. The kingdom of South India was a series of small states. The great maritime expeditions of the East Asia. While northern India suffered political fragmentation and Muslim rule, the Chola kingdom established a power in which Hinduism flourished.

Vishnu, one of the principal gods of Hinduism and the supreme deity for the Vaishnavas, some of whom find a close analogy between religious experience and sexual love, has revealed himself as a saviour of mankind in many different forms. His incarnation as a man or as a woman. His most well-known form was as Krishna, the divine shepherd and king philosopher. Of the avatars, the Boar avatar shows him with elaborate ornamentation or a most frequently represented in Hindu mythology the god is believed to have descended to his fourth incarnation on earth when he sunk in the ocean.



6 An older Shiva temple at Orissa shows the typical shikhara feature of a sculpture of the temple. It is built on a platform in front of a pool that is used for ritual ablutions.



7 Although the Gupta Empire reached the peak of classical Indian culture, its influence hardly reached the south. After its fall, the north was rarely united while the Pallava and Chola dynasties

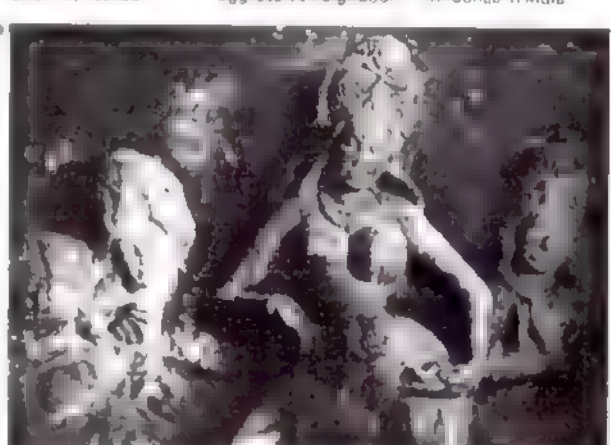
brought continuity to the south. Despite the lack of cohesion, the south was resistant to the Muslims, and only Sindh and the growth of Mahmud of Ghazni's empire. B as a powerful and aggressive neighbour

Mahmud was not impeded by religious motives but Muslim raids continued until the establishment of the Muslim Sultanate of Delhi in 1206, marking the start of permanent Muslim influence in India.



8 Puri is one of the great religious centres, attracting countless pilgrims from all over India during the annual cart festival of Jagannath (Juggernaut). The god used to be a tribal deity.

9 Although they were meant for monks, there is little trace of puritanism in the Buddhist caves of the western Deccan. This relief probably of the sixth century depicts Taras, a kind of female saviour who is performing a devotional dance.



Indian art to the Moguls

The beginning of Indian art can be traced to the Indus valley culture of Harappa and Mohenjo-daro (Pakistan) dating from about 2500 BC. At these two sites small examples of either naturalistic as well as stylized sculptures were found that show a considerable understanding of the treatment of the human figure both in stone and in bronze. Clay figures in a somewhat primitive style were made and possibly represent popular art, in contrast to steatite seals showing animals and figures were cut in a tight, formalized design.

Mastery of sculptural technique

In the historical gap between this period and the Mauryan era (320–185 BC) it is clear that the Indian craftsman achieved complete control of his medium. The Ashokan pillar capitals, such as that from Sarnath adopted as the national emblem of India, show both stylized lions and a more naturalistic treatment of animals carried out in polished sandstone. This technique is characteristic of Mauryan sculpture and it continued into a slightly later period. The *yakshi* [Key], although not a Mauryan piece, also has a polished stone sur-

face. This was probably intended for worship but it is remarkable for its unspiritual treatment of the female figure. This combination of the religious and the sensual is found throughout Indian art. Similarly, it is not unusual for sculptured pairs of embracing figures (*mathura*) to be found in a religious context in cave temples or in erotic postures adorning the outside of temples.

It is likely that major deities were not personalized but represented by symbols until the first two centuries AD an important development took place, as a result of the cult of *bhakti* (worship of a personal god), at that time images became the main icon. The change seems to have occurred in two places simultaneously, in Gandhara (now north-western Pakistan and northeastern Afghanistan) [5] and Mathura (southeastern Delhi), with some interaction.

Hellenistic influences on sculpture

In Gandhara, as a result of latent Hellenism remaining after the eastern extension of Greek culture, a style of sculpture arose that was deeply influenced by Hellenistic ideas

These concerned not only interest in the human figure and the treatment of drapery but also the physical idealization of the deity. Whereas in Gandhara the religion served by sculpture was almost entirely Buddhist, at Mathura Hinduism and Buddhism existed side by side. Here also the style of the images was more Indian, and the stone used was frequently a mottled red or fawn sandstone instead of the grey schist in which most Gandhara stone sculpture was executed. The later (Gupta) Mathura Buddha figures [2], in which the robes appear to stick to the torso smoothly or in ridges as if they were wet, later became the exemplar of many other statues of Buddha that were made wherever Indian Buddhist culture spread.

Although brick and stone buildings were made, most of the remaining architecture from the first few centuries AD comprises caves and formalized Buddhist burial mounds (stupas) [3, 4]. The caves, such as those at Karli, Ellora and Ajanta, were cut from natural rock strata mainly between the second century BC and the ninth century AD for the worship of all three of the main Indian

CONNECTIONS

See also

India 500 BC–AD 300



1 The figures of tree-spirits on this 1st century BC railing pillar from Bharut have a low relief and more formalized design than some of the later representations of tree spirits. They

made their contribution to later Indian sculpture, in which free-standing figures were not as popular as those that were carried out in high relief and made to be viewed from the front.



2 This elegant sandstone Buddha figure from Mathura was made in the Gupta period, about the 5th century AD. It expresses serene contemplation with a feeling for form and decorative style.

3 In the famous Ajanta caves every detail was cut from solid rock that forms part of a hillside. They were made between the 2nd century BC and the 9th century AD. The construction of the

7th century Buddhist worship hall shown here can be compared with a church, having a nave, aisles and apse, the stupa, and seated Buddha (top, centre) make up the focal point of the whole design.



4 This low relief formerly decorated the lower part of a stupa similar to the one it illustrates. Made in about the 2nd century AD, it came from one of the many Buddhist stupas at Amaravati.

5 Late Hellenistic influence can be seen in the style of this 2nd–4th century AD image of a Bodhisattva (Buddha to be) from Gandhara. Many conventional motifs in later Buddhist art originated in the sculpture of this period.



6 The sculpture of the Pale-Sena period (8th–12th century AD), such as this figure of Vishnu, shows a remarkable development both stylistically and in the deities portrayed. Some of the compositions were simple and restrained whereas others showed either figures in violent movement or in complex groups. Articles of dress, such as crowns, jewellery, robes and symbols, became more detailed. Sculpture was carved in grey sandstone or polished basalt.

religions, Hindu, Buddhist and Jain. Some were unadorned, but others were decorated with sculpture and painting.

Some impressive free-standing rock-cut temples were also made both in the western and southeastern Deccan. The shore temples at Mahabalipuram are the finest [10]. At the sites shared by more than one religion (as at Ellora) there is no difference in the artistic style adopted, which tends to be regional rather than sectarian. It is likely that much sculpture was painted in naturalistic colours as in ancient Greece.

The theory and practice of sculpture and architecture were recorded in texts (*śilpa śāstras*) that probably had a wide distribution. In spite of this, Indian art is remarkable for the variety and sensitivity of its treatment of religious subjects. This is particularly noticeable if its bronze sculpture is compared with the stone sculpture of Orissa belonging to the eleventh and twelfth centuries [7]. In contrast, an elaborate and agitated style grew up in Mysore during the Hoysala dynasty (late twelfth to fourteenth centuries) which is attractive in its unrestrained exuberance [9].

A little earlier, in Bengal and Bihar prior to the Muslim invasions, the art of the Pala-Nepa period (eighth to twelfth centuries) flourished under generous royal patronage and religious fervour. Bronze and stone sculptures were produced in great variety and quantity [6] and had an important influence throughout eastern Asia. It was at that period that many of the forms of Indian deities, later accepted as conventional, were created in this part of the subcontinent and in the south.

Surviving examples of Indian painting

Painting also achieved high standards of skill as the wall paintings of the cave temples of the western Deccan (such as those at Ajanta) bear evidence. They suggest a long period of development and it is almost certain that there were other forms of painting that have now disappeared. Those on birch bark were especially susceptible to decay although a few examples have survived. Others, including illuminated palm-leaf manuscripts [8] remain and exhibit a mastery over line and brilliant colour that was to influence early Nepalese painting and the woodcuts of Tibet.

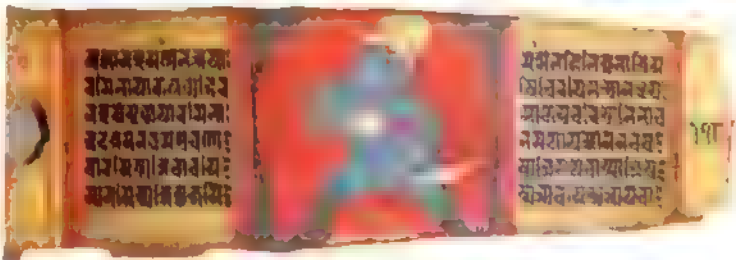


This fly-whisk bearer of polished sandstone comes from Didarganj (Bihar) and is of the 1st century AD. From its resemblance to figures at Sanchi and Bharut it is likely that this is a statue of a tree-spirit deity (*yaksha*). The fly-whisk is a symbol of power and is the only visual indication that this figure is not an ordinary mortal. It is in sharp contrast to later sculpture showing figures that leave no doubt as to their status as deities. This image, although early, shows something of the significance with which female deities were eventually to be invested in Indian religion.



7 Orissa produced a characteristic local sculptural style, shared by all sects. It is illustrated by this 11th-century Jain figure of the mother goddess Ambika that continues early traditions.

8 These palm-leaf illuminated manuscripts of the 12th century are some of the earliest examples of Indian painting other than wall painting. It is likely that there were earlier examples that have not survived, as these show evidence of mature development. Unlike later Indian miniatures, which developed from them, they did not necessarily illustrate the text but contributed to its sanctity as a religious object.



9 The Hindu art of Mysore in the 13th century is exemplified in this impressive sculpture. It originally formed part of an elaborate scheme decorating the outside of a temple. It is executed with characteristically fussy and meticulous treatment of details such as jewellery, costume and ornamental motifs. It shows a form of the goddess Durga overcoming the buffalo-demon Mahisha. Like many Indian deities she has several arms; they are necessary to hold the attributes ascribed to deities partly to symbolize their powers, partly to distinguish them from other deities. Durga holds the symbols of several gods who combined to defeat the demon.



10 Free-standing temples were also carved in India out of natural rock outcrops, such as the Kailasanatha at Ellora. In south-eastern India in the 7th and 8th centuries a series of temples and huge reliefs, such as this one showing the descent of the Ganges, were hewn from granite rocks near the sea shore at Mahabalipuram. They show a mastery of control of form and design especially when carried out in such a difficult medium.

China 1000 BC – AD 618

The Shang dynasty (c. 1600–c. 1030 BC), the first in the recorded history of China, was overthrown in about 1030 BC by a group of tribesmen from west China called the Chou. Their dynasty was to be China's longest, and its notable contribution to Chinese history was that it witnessed the birth and popular acceptance of Confucian philosophy.

The Chou and the Ch'in dynasties

The Chou period (c. 1030–221 BC) saw many important developments. The realm was extended to the sea in the east, the Yangtze River in the south and to the borders of Szechwan in the southwest. As this expansion continued, semi-independent states emerged which, although paying tribute to the emperor and his court, were more concerned with culture and religion than with political authority.

The delicate balance of power between the emperor's vassal states finally collapsed and the "Warring States" period began (475–221 BC). During this period of violent struggle, philosophical and moral thought flourished and a new, educated class arose.

Chief among the philosophers was Confucius (551–479 BC), whose teachings emphasized duties to the family and society rather than preoccupation with the dead. The influence of his thought signalled the decline of the old feudalism and began a tradition of close association between philosophical thought and political practice in China.

This was also a period of great technological change. Iron superseded the use of bronze, especially in weaponry, irrigation improved harvests, and the invention of the breast harness vastly improved the efficiency of the horse.

Gradually the smaller and weaker states were absorbed by the militarily and economically stronger states, until the chief contenders were the Chou in the south and the Ch'in in the west. Eventually the Ch'in became supreme rulers and in 221 BC China was for the first time unified under Shih Huang Ti (259–210 BC), the "First Emperor" [3]. He abolished the political system of the Chou and returned to the old feudal system, dividing the country into 36 provinces over which he set officials directly responsible to

himself. He completed and strengthened the Great Wall [1], today stretching 2,400 km (1,500 miles) from southern Kansu province to the coast east of Peking. The written language was simplified and unified over the whole country. Weights, measures and coinage were standardized. Shih Huang Ti is remembered as a despotic but practical emperor who burned existing literature, exempting only works on agriculture, medicine, pharmacy and divination. After the First Emperor's death the structure soon collapsed under the feeble rule of the second emperor who was murdered in 207, bringing the Ch'in dynasty to an end.

The Han dynasty: education and wealth

Out of the chaos that followed there emerged a successful candidate for the throne, Liu Pang (247–195 BC), who founded the Han dynasty in 206 BC [2]. Initially the Han endeavoured to rule with the Ch'in system. But after about a century the principle of hereditary local power was curtailed and candidates for local government were selected by open examinations [4]. In 124 BC

CONNECTIONS

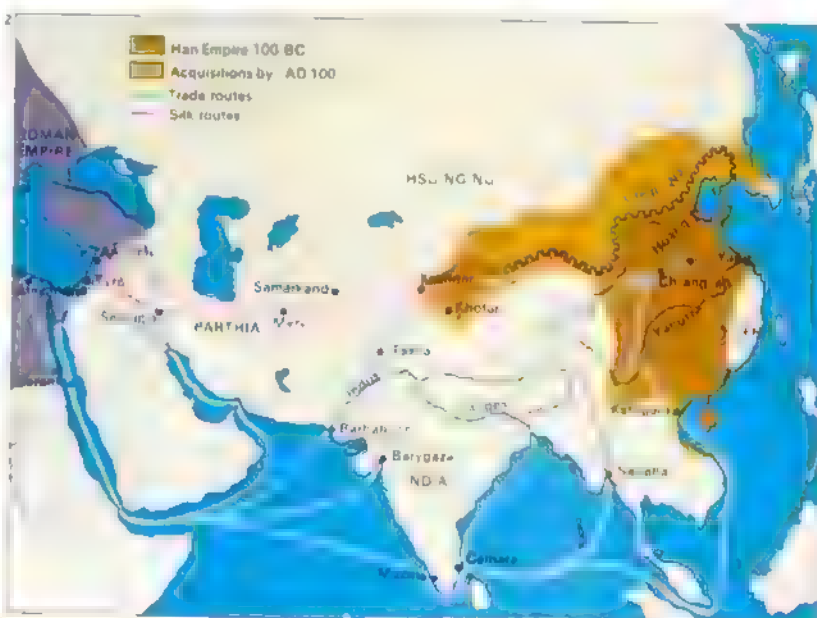
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1 The Great Wall of China was commenced under the Chou dynasty in the fourth and third centuries BC. It was designed to protect the Chinese people from attacks by the nomadic tribes who occupied the steppe lands in the far north and west. Building went on under ensuing dynasties and various sections of the wall were connected until, during the Ming dynasty (1368–1644), it extended for 2,400 km (1,500 miles).

2 China expanded under Han rule after unification by the Ch'in. The growing silk trade had to be made secure, but central Asia remained vulnerable to barbarian threats.



3 Standardization of weights and measures was first ordered by Shih Huang Ti, First Emperor of all China. It was one of a number of measures to consolidate his rule, including standardization of the

language censuses and the construction of a defensive road system. After his death taxation and the forced labour system led to peasant revolts and the eventual collapse of the dynasty.



4 A Han official in his carriage is drawn by slaves. His attendant follows in the rear. During the Han dynasty a large bureaucracy was established to implement the growing powers of the state. The officials

usually nobles, were the product of the Confucian training of the official class. The Confucian ethical code required that the official class should possess wisdom, integrity, righteousness, conscientiousness, loyalty, altruism,

love and humanity. Confucius insisted on the importance of education and training. "By nature men are pretty much alike, it is learning and practice that set them apart." The ruler's power could be forfeited

5 A bronze axle-cap dating from the mid Chou period (seventh century BC). The linchpin that held the wheel in place is decorated with a tiger's head. Chariots from which such axles came

would probably be ceremonial or for state use. Although chariots were also widely used in warfare, they were reduced to an auxiliary role as the raids by the mobile, northern horsemen increased.



in Imperial University was set up for the study of Confucian classics. Its students were trained for government and rapidly increased until by the end of the dynasty they numbered nearly 30,000. Provincial schools were also established. Education and the growth of the civil service was greatly assisted by the invention of paper, and ink and brushes replaced sharp writing tools.

Under state patronage the arts revived and the early wealth of the Han dynasty can be seen from their rich tombs (6). Most of the monuments of this period reflect the needs of a growing state bureaucracy - engineers developed irrigation methods and water clocks, and sundials and seismographs were also invented (9).

Until this time there had been little contact between China and the outside world but under Han rule the empire was extended. Caravan routes were opened up, including the Old Silk Road which followed a chain of oases skirting the foothills of the T'arim basin. Chinese sent ambassadors abroad along with its ever popular silk, and products were exchanged as far afield as the outposts of the

Greek world. Ideas travelled with the trade, most notable of which was Buddhism (10), introduced from India under the Han and which by the seventh century had become a major force in China.

Under the Ch'in and the Han, China for the first time became a great state. But the mandarins, so carefully picked by scholarly examinations, became corrupt and sided with the great landlords in their oppression of the peasants. The Han dynasty was brought to an end by widespread revolt in AD 220.

Disintegration of the empire

During the next three and a half centuries there was a succession of short-lived ruling dynasties. It was not until AD 581 that the country was at last reunited under the Sui dynasty. Prosperity increased, taxes were reduced, irrigation improved and public lands were distributed so that each family had some land of its own. But the extravagant second emperor increased taxation. In AD 618 he was assassinated by one of his officers, Li Shih-mi (Emperor Li Yuan), who founded the Tang dynasty.

PEY



A rubbing from a Han stone relief shows a mounted barbarian archer at full gallop. The reins

are looped on the horse's neck, leaving the archer's hands free to loose off the arrow. Firing

from the saddle he had great speed and mobility. Such raiders were a constant threat to the Han.



6 Princess Tou Wan was buried in this jade suit. She was consort of Prince Liu Sheng, who died some years before her, in 113 BC. Their tombs were accidentally discovered by some soldiers in 1958 in a cliff on the Ling mountain in the province of Hopei. The massive stone doors which led to the burial chambers were sealed by molten iron. The tombs were some 12.5m (40ft) square and beneath the collapsed jade suits lay some ash, all that was left of the royal couple. Jade was believed to have magical properties of preserving for eternity anything kept in it. The suits were made in 12 parts so that they totally encased the body.



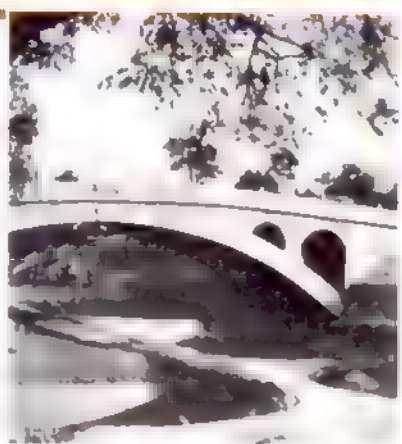
7 A celestial horse of the Han dynasty was excavated in 1960 from a tomb at Wuwei in Kansu province. Flying horses were a recurrent motif in Han art.



10 The Buddhist school of sculptors produced in a white marble stone in the early part of the fifth century AD. It shows the Buddha Sakyanmuni in a posture denoting his death. As the bestower of fearlessness, the Buddha is seated

under some tall trees surrounded by his disciples and Bodhisattvas, including Ananda, his favorite disciple, and Mahakasyapa, who became a leader after his death. At his feet, a goddess of lotus and flowers

8 This bridge, at Anchi, built in AD 610, shows the remarkable sophistication of Chinese engineering long pre-dating West achievements. The building of canals and roads, needed for the transport of grain and the maintenance of peace was fostered under Sui rule. The Grand Canal, built by forced labour, linked the Huang River and Yangtze rivers and connected the political centres of the north with the economically important Yangtze region.



9 The earliest known Chinese seismograph depicts eight dragons, each holding a ball in its mouth. Around the base of the vessel are eight roads with open mouths. An earthquake at any point of the compass causes the dragon facing that direction

to drop the ball into the mouth of the road below, thus indicating the direction of the tremor. This instrument was invented during the Han period by a famous astronomer, mathematician, poet and writer, Chang Heng.

described this as the Way of the True Gentleman and it is his ideal. He also advocated filial piety (*hsiao*) to parents and ancestors and proposed a hierarchy of relations: ruler and subject, father and son, older and younger brother, husband and wife and friend with friend. Confucius believed in the Supreme Being, but held that service to God is meaningless if service to man is neglected.

Confucius and his contemporary Lao Tzu (c. 604-531 BC) were teachers rather than founders of religions, but their supposed writings became the sacred scriptures of Confucianism and Taoism respectively, and part of the whole culture of China [8]. The teaching of Confucius was continued and extended a century later by Mencius (372-289 BC) and Hsun Tzu. Within a few centuries Confucian teachings became the orthodox doctrines of the state and the guiding lines of the official classes [4].

The role of Confucius in history

Confucius was neither a god nor a prophet and it is often asserted that Confucianism is not a religion, but this statement should be

qualified in order to be properly understood.

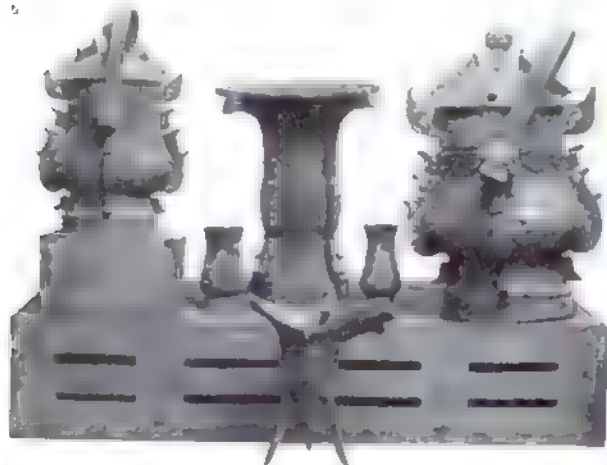
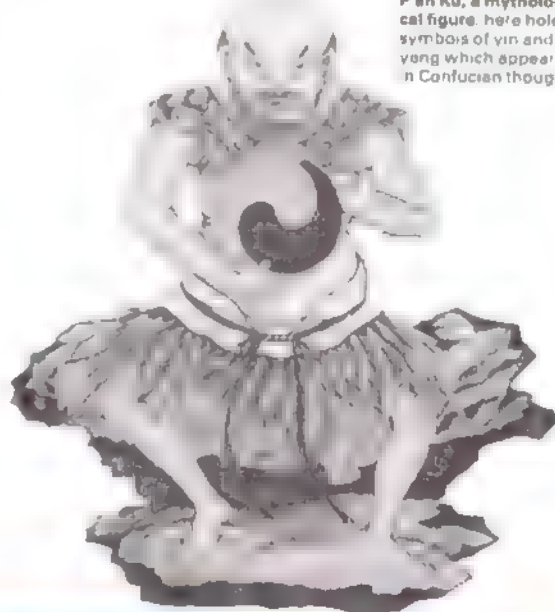
Before the Christian era, emperors offered sacrifice at the tomb of Confucius [3].

A practice that continued for many centuries. Yet Confucius was not a god with images but an ancestor or great sage, revered as the Teacher of Ten Thousand Generations. Nevertheless, the tradition of Chinese veneration of ancestors and Confucius' own emphasis on filial piety led to ancestral ceremonies being associated with Confucianism. The role of the emperor, and his performance of rituals on behalf of the people [6], further added to the complexities of Confucianism. It laid the moral and social teaching of Confucius himself.

In modern times Confucius has been alternately attacked as a feudal aristocrat and revered as the greatest teacher of ancient China. The dead are still venerated in China and much time and money continue to be spent on preserving temples [7] and graves. Modern China, despite the shift away from tradition, brought about by the Marxist ideals practised by its rulers, still continues to be profoundly influenced by Confucianism.

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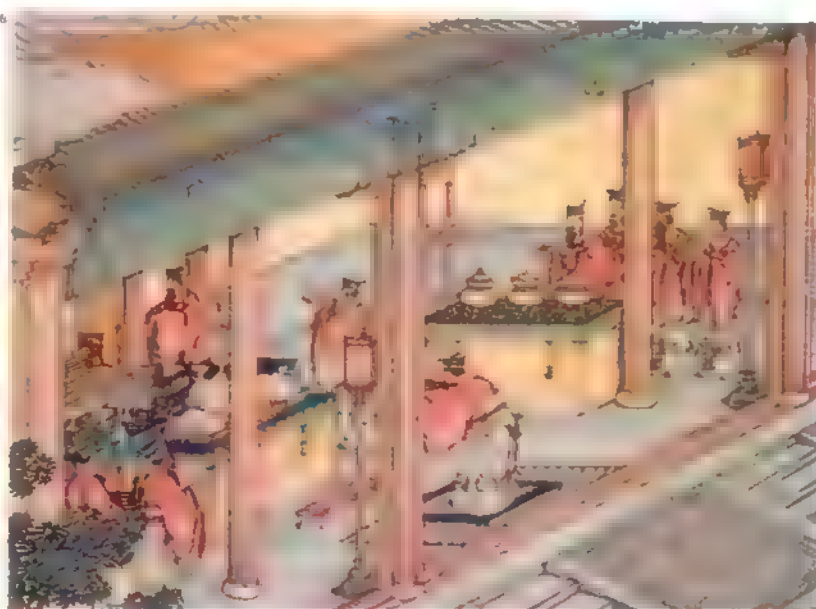
P'an Ku, a mythological figure, here holds the symbols of yin and yang which appear in Confucian thought.



5 Bronze ritual vessels were used in sacrifices and ceremonies from ancient times. These vessels, grouped on or around the altar,

bore stylized dragons and masks. Their inscriptions describe royal or religious ceremonies, traditions that have influenced Confucian thought.

6 The offering of sacrifice and praying of the lung for his laws is pictured in this illustration from the *Shih Ching*, a Confucian classic.



7 The Temple of Heaven in Peking with its three roofs, gold-capped shrine and pavilions, is one of the finest buildings in China. Here the emperor himself acted as high priest for the people. It is still a national monument today.

8 This fanciful picture illustrates the meeting of three ways of thought in ancient China: Confucius, left, as a scholar, may never have met Lao Tze, shown, right, as an old man, and the Buddha, as a centre monk, may never have been to China. But Confucian morality and ceremony, Taoist nature mysticism and Buddhist asceticism and devotion played formative parts in the traditional structure of Chinese religion, art and social life.



China 618–1368

The Emperor Li Yuan, who founded the Tang dynasty (618–907), was followed by his son, the Emperor Tai Tsung (reigned 627–49) under whose rule China became the most powerful and the largest empire on earth. The security China enjoyed in this position encouraged trade with the outside world and brought in a rich horde of goods. The trade also carried scientific ideas westwards beyond the borders of China [8].

Art, commerce and religion

Chinese arts flourished during the Tang dynasty [3, 4] particularly poetry, and it produced such poets as Wang Wei, Li Po and Tu Fu. The earliest known printing commenced in this fruitful period and paper money was first issued [1]. Money lenders thrived in the numerous markets and the growth of commerce brought prosperous trade with merchants from Japan, central Asia, Arabia, Turkey and the Mediterranean.

The emperor was as tolerant of the religions that the foreigners introduced as he was of the merchants themselves. Although a Taoist, he supported Confucianism for

reasons of state and treated Buddhists with great respect. Zoroastrian temples and Nestorian Christian churches also existed in the capital Ch'ang-an, modern day Peking.

Wu Tse-t'ien – an efficient empress

The peace and prosperity that Tai Tsung brought to the empire was continued by his former concubine, Wu Tse-t'ien, who came to the throne in 683 and ruled China with ruthless ability until she was forced to abdicate in 705 at the age of 82. She was a profound believer in Buddhism and was the first and only female "Son of Heaven". Much of the progress and stability of the country was due to the fact that civil service officials [2] were selected by examinations held under controlled procedures. The empress also permitted women to sit the examinations for government posts.

The main function of the government was the collection of revenue and the promotion of the agriculture on which it mainly depended. For this purpose the country was divided into districts controlled by magistrates. The people were divided into three

groups mutually responsible for each other's conduct and for tax payments – encouraging a sense of collective responsibility that is still a feature of China today.

Tang influence spread far afield, to such an extent that the Japanese capital of Nara was modelled on Ch'ang-an. In the west it clashed with Islam. Muslim armies had advanced, bringing their faith as far as Samarkand and Bokhara. Eventually they conquered central Asia, severing the overland route between China and the West. Trading continued by sea, but the power of China began to wane and as it weakened she became less tolerant of foreigners and their religions. In 845 all foreign religions were proscribed and a ban was placed on Buddhists and their rich but unproductive monasteries [9]. Disastrous revolts and invasions decimated the population and in 907 the Tang dynasty ended in ruins.

Five dynasties and the Mongols

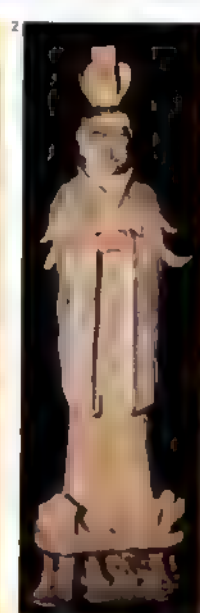
The Tang dynasty was followed by a period called the Five Dynasties between 907 and 960, when, as a Chinese poet said, "States

CONNECTIONS

See also

1. The Silk Route
2. The Great Wall
3. The Great Canal
4. The Great Wall
5. The Great Wall

1 The Diamond Sutra, the world's oldest printed book, dates from AD 868, nearly six centuries before the first printing in Europe. With gun powder and the magnetic compass printing was one of the revolutionary inventions developed by China long before the West. The consequent growth in literacy meant that in increasing the civil service (for which, in theory, recruiting had always been democratic) was drawn from a wider circle of families. Printing facilitated the great expansion of the economy that characterized the Sung dynasty by making possible the introduction of paper money and credit notes.



2 This Tang mandarin was one of the highly educated, privileged and wealthy elite who comprised the mandarin or civil service. The continuity and resilience of the large state bureaucracy from earliest times is one of the more remarkable features of Chinese history. Its officials, selected by public examination, collected taxes, supervised state projects and the nationalized salt and iron industries (under state control since the Han dynasty) and administered local areas. They also supervised the merchant communities and foreign trade (a despised business largely in the hands of immigrants, but strictly controlled by the state).



3 A fine example of the elegant work that was produced in the classical period of Chinese civilization is this white Tang porcelain spittoon of the late 8th century. It comes from Hsiao-chou in the modern province of Hope and exemplifies

the best of the high-fired ceramic ware produced there. Under the Tang, Ch'ang-an was a thriving capital, one of the cultural centres of the East. Its wealth came partly from the prosperous westward trade. Chinese goods were much in

demand along the Silk Route. The Tang is often seen as the artistic counterpart to the great scientific and technological achievements of the preceding Sui dynasty. The Tang literary achievement in prose as in verse remains unsurpassed.

4 This silver wine flask of the Tang dynasty is a typical piece of Chinese metalwork displaying strong foreign influence. Under this dynasty the capital, Ch'ang-an (now Peking), was probably

the most cosmopolitan city in the world and as the empire expanded, merchandise arrived from all quarters. The flask is modelled on the leather water bottle widely used by travelling merchants.



5 Gunpowder was discovered by Taoist chemists in about the 9th century and was first used strictly peacefully. By AD 1000 simple bombs, grenades and rockets were being made, but it was the Mongols who first exploited gunpowder for military ends. They probably used a type of cannon in their campaigns against the Sung troops and certainly employed Chinese engineers. The Mongols captured the Sung fleet which was armed with trebuchets for firing bombs. Although gunpowder was a Chinese invention, it did not have the revolutionary effects on Chinese society that it had in Europe. Illustrated is a Chinese rocket of the Sung dynasty.

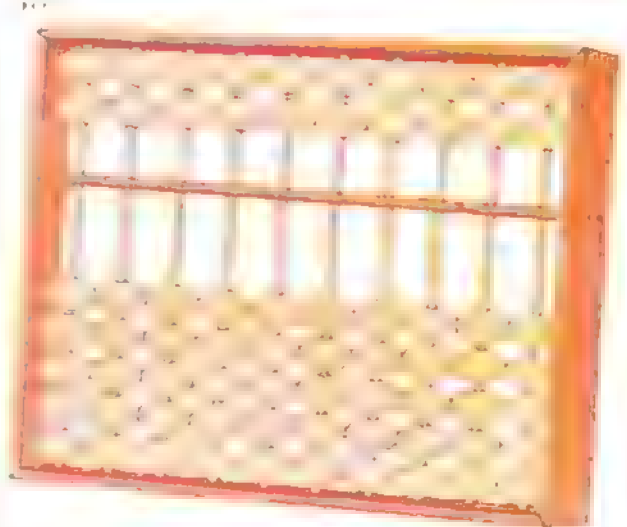


rose and fell as candles gutter in the wind." In 960 the Sung dynasty was founded by Chao Kuang-Yin. The war-weary country was at last glad to accept established rule and welcomed the new emperor, who took the title Sung Tai Tsu. China was still threatened from the north and in 1044 an indemnified peace treaty was concluded with the Hsia, a tributary kingdom. Gunpowder, which had been discovered during the Tang period but had been used only for fireworks, was now used to produce the first military rockets in history [5]. The loss of the northern part of the country was partly offset by sea trade, which had been considerably helped by the Chinese discovery of the compass. Large ocean-going junks [6] carried cargoes of tea, silk, porcelain, paintings and other works of art to the East Indies, Africa and India. Another important invention was the abacus [Key], the first calculating machine and one still widely used.

The Sung dynasty ended in a similar manner to the previous empires. Corruption at court and discontent among the people permitted the ascendancy of the latest nomad

empire of the north, the Mongol nation. The new invasion started in the thirteenth century when Genghis Khan (1167-1227) invaded northern China [7]. By 1223 he had conquered most of the country north of the Yellow River and defeated the Hsia, killing about 90 per cent of the population [10]. However, it was not until 1264 that his grandson Kublai Khan (1215-94) was able to move his capital from Karakorum in Mongolia to Peking, and, in 1279 he overcame his former allies the southern Sung.

Mongol rule or, as it was officially known the Yuan dynasty (1264-1368), was successful in uniting the Chinese and Mongol empires and under Kublai Khan Mongol power reached its peak. But the invaders were eventually overcome. Kublai Khan's successors did not have his ability and the oppression of the Chinese by hordes of foreign officials led to the formation of secret societies and to revolts. In 1356 Nanking fell to a peasant movement led by a monk Chu Yuan Chang, who finally became first emperor of the new and purely Chinese dynasty, the Ming, in 1368.



The abacus, introduced during the Sung dynasty is still widely used today in all areas of

commerce. Under the Tang and Sung the economy underwent a rapid expansion, similar to that which

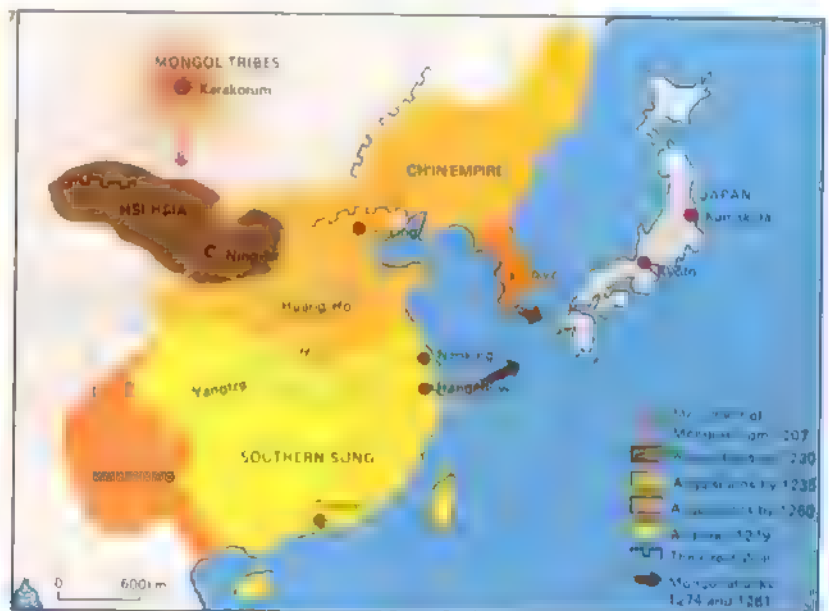
occurred in 17th century Europe, but despite this Chinese society remained essentially feudal.



6 Maritime commerce expanded greatly during the Sung dynasty. Sea-going junks, such as the porcelain model here, carried cargoes of silk and porcelain to the East Indies, India and

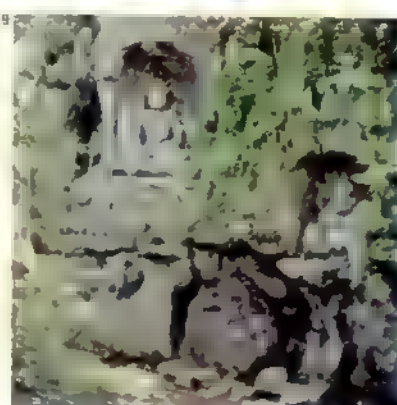
the east coast of Africa. Undoubtedly improvements in navigation which were greatly aided by the invention of the floating compass (c. AD 1021) contributed to these ambitious trading expeditions.

7 The Mongol conquest of China was finally completed in 1279. The Sung had previously allied with the Mongols against the Ch'in in the north but were eventually encircled by Mongol conquest.



8 This medical drawing from a Persian textbook of the 14th century is in fact

of Chinese origin and shows the wide spread influence of Chinese science.



9 Buddhist temples carved from rock were features of the Yuan-kang and Lung-men periods in the 5th and 6th centuries AD. The last of them (like the Fen-lai-feng cave temple near Hangchow) of which a detail is shown

were carved in the late 13th century (in the Yuan dynasty). Buddhism in China reached its peak in the middle of the Tang dynasty, but thereafter the faith was gradually absorbed into traditional Chinese customs and philosophical beliefs.



10 Genghis Khan's army capturing a Chinese town is recorded in this painting. The Mongols came to rule almost all of eastern Asia as part of an empire stretching across Asia to Hungary and the Black Sea. After the conquest of the Sung in the south, China was for the first time ruled by foreign invaders. The Chinese-style Yuan dynasty ruled China for less than 100 years. Under the Mongols trade routes across Asia were safeguarded and a variety of religions, including Christianity, were permitted. Kublai Khan was the first Yuan emperor, but after his death Mongol rule was short-lived, ending in a series of rebellions and finally expulsion.

Chinese art to 1368

Neolithic Chinese society (c 7000–c 1600 BC) was centred on the Yellow River and organized in village communities. The potters made coil pots which they burnished and painted with black, white and red slip in striking animal, flower and abstract spiral designs. The shapes of later Neolithic pots were elegant and complicated, they appear to be related to the bronze vessels of the first historic dynasty (Shang c 1600–c 1050 BC).

Early art forms

The ritual vessels of the Shang slave society ruled by a god-king were magnificently designed and cast. The shapes varied and the rich decoration was based on animal motifs [1]. As society changed and the rituals lost their significance bronzes became more decorative, richer in appearance and often gilded. Decoration included floral motifs and was achieved by inlay and inserts of gold, silver and semi-precious stones.

Pottery had always been of great importance to the Chinese and through the centuries potters were developing the stone-ware clay indigenous to the eastern areas of

China, perfecting the throwing of the clay, glazing and firing to a high temperature. Lacquer painting was an early invention that also gradually evolved, particularly in the south of the country, to become an art form. With the invention of the brush and of paper, written calligraphy as opposed to the incised character became a major art form from which painting evolved, at first for ritual purposes. By the second century BC, however, there is evidence of the use of painting as a medium of artistic expression.

The great Ch'in (221–206 BC) and Han (206 BC–AD 220) dynasties saw the unification of a country that encompassed many differing cultures. The newly evolved art of painting with colour on cloth or paper was used to express the many myths and legends of this rich heritage [3]. Some of the most lively painting came from the southern area, the old kingdom of Ch'u (present-day Hunan, Anhui area) and from the west in present-day Szechwan, where stamped brick and relief carvings were also used to portray everyday life and mythological scenes.

Buddhism was introduced to China

during the first century AD but did not appear in the arts until the fourth century. However, between that time and the ninth century great temples were built or cut from the living rock and were decorated by rock carvings or massive wall paintings and hangings [4] and furnished with images of gilt bronze or stone. Unfortunately periods of anti-Buddhist destruction have obliterated much of this huge output, only the great rock temples of north China remaining.

CONNECTIONS

See also

The art of the Tang dynasty (618–907)

The Tang dynasty is famous as one of the finest periods of artistic work of all kinds in China. It was a time of cosmopolitan vitality and metropolitan splendour which encouraged all the minor arts, a taste for extravagance led workmen to produce colourful work ranging from jewellery to bronze mirrors inlaid with corneal and gold, beautiful silks and exotic inlaid musical instruments. Great religious paintings are recorded although they have not been preserved. The two major artists were Wu Tao-ze (mid eighth century), a majestic figure painter who

1 Early Chinese bronze works, like this ritual vessel a *chiu* of the fourteenth century BC (Shang dynasty), were cast from piece moulds, sections of mould bound together in such a way that they could be taken apart and re-used after casting. The decoration is arranged in bands round the vessel and is derived from an *mai* motif, which could be either realistic or mythical. Each ritual vessel had its function – this was used for libation.



2 This dagger handle of the Warring States period (475–221 BC) is of cast gold. The lost wax method was used for casting such intricate 'cut through' designs. Cast gold work of this period is extremely rare.



3 A painted banner from a tomb of the early Han dynasty depicts both upper and lower world mythology. In the centre is a portrait of the occupant, who was buried at Ma Wang Tui, Ch'ang-sha.



4 A meditating Buddha in Paradise is portrayed on this painted hanging, which shows the richness of Tang painting. The influence of Buddhism in China reached its peak under the Tang, the textiles, silver and pottery that were produced mark this as a classic period in Chinese art. The hanging comes from Tunhuang, a large Buddhist monastic centre in northwest China where hundreds of cave temples were decorated with wall paintings.



5 A winged lion of the Sung dynasty (960–1279), inlaid with silver and gold, was executed in the style of the late Chou dynasty (c 1030–211 BC). It typifies one aspect of Sung taste. The decoration is similar to that of the Chou but on a larger scale. In contrast to the preceding Tang dynasty, when external influences such as Buddhism affected much of Chinese civilization, the Sung was a period of a subconscious reassertion of traditional values in art and society.

used a flowing brush line expressing volume and vitality, and his contemporary, Wang Wei (699-759), a poetic landscape painter, the originator of ink painting of handscrolls in which the tonality of ink expressed depth, texture and atmosphere.

A tradition of landscape painting

It was landscape painting that was developed by major painters through the succeeding four centuries [Key]. The classical period of the tenth and eleventh centuries saw the painting of monumental mountain hanging scrolls, in which man is shown as a tiny inhabitant of a grand overpowering landscape. This concept gradually gave way to a study of the beauties of the smaller details—a single bird, a flower, or an incident on the banks of a river. Here the painter became interested in the style of his painting.

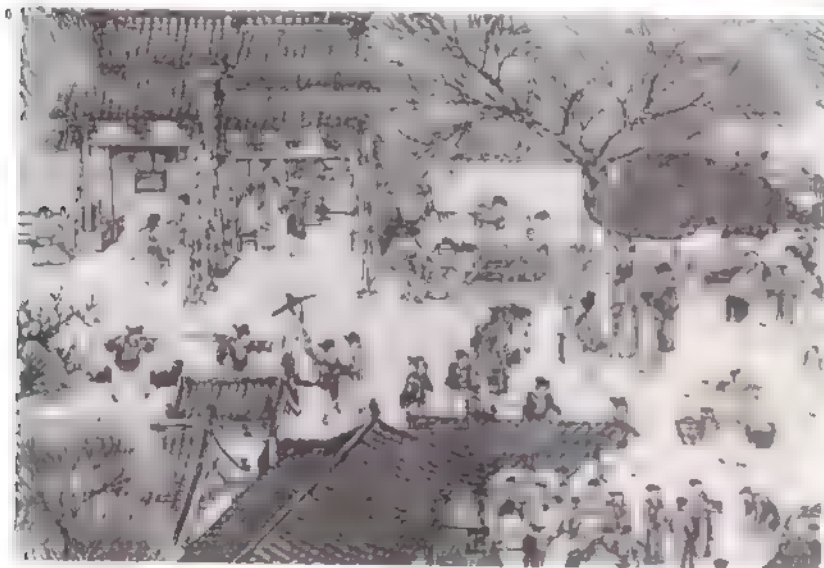
The scholarly taste of this period was expressed in all the crafts, the stoneware tradition of the celadons of Chekiang [7] and the court wares of Kaifeng jade carving, gilt bronze [5] and ceramics. At the same time, however, particularly in the north of the

country, a robust taste for flamboyant decoration was displayed in the decorated wares of Lu (8) and

The great flowering of decoration on ceramics with the introduction of cobalt underglaze painting techniques and the painting of lacquer in gold and red to produce rich boxes and small furniture seems to mark a sharp change of taste but perhaps is more an underlining of the added riches and complementary character of the north and south of this huge country. During the early and mid-fourteenth century there was another great flowering of painting. Declining to serve the foreign Mongol court in the traditional role of bureaucrat, scholar gentlemen gave their time to painting comparable with the activity and gravity of production of the tenth and eleventh centuries. The Four Great Masters, Ni Tsan (1301-74), Wang Meng (died 1385), Wu Chên (1280-c. 1354) and Huang Kung-wang (1269-1354) [9] painted in traditional but entirely personal styles to lead the way for the next three centuries in the unfolding of the honourable tradition of landscape painting.

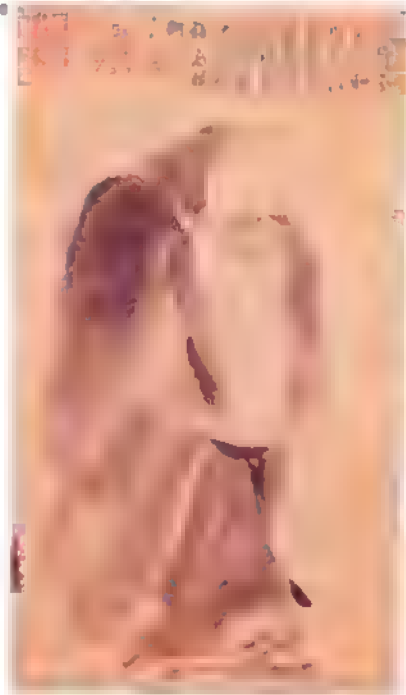


"Travellers among Streams and Mountains" is a hanging scroll of the early eleventh century by Fan K'uan. Painted in ink and slight colour on silk, it is one of the early great masterpieces of landscape, and shows the classical style of construction. The foreground, in which tiny figures wend their way, is a little remote from the viewer. The horizon beyond them is defined by a cloud. A device used to express the space between the mid ground and the towering mountain up which the eye travels to arrive at a third and fourth eye level. The painting is unconscious and has great dignity and serenity.



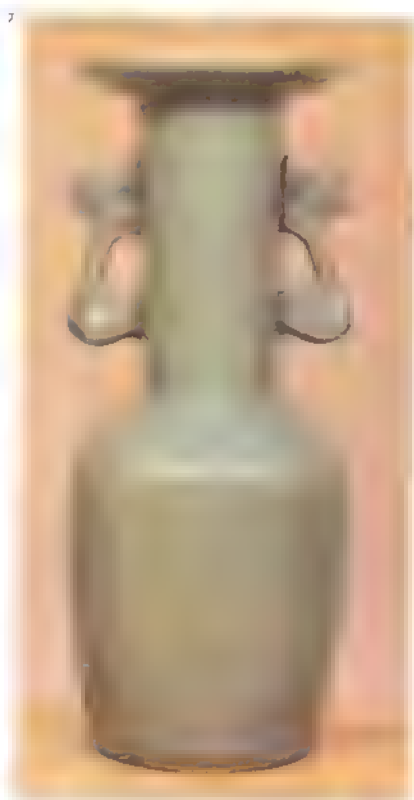
6 This handscroll of the thirteenth century was done in ink on paper by an anonymous artist. It depicts the preparations for the Spring Festival, when families gather to visit the graves of ancestors. It is a genre scene of great detail and interest, the style being complementary to the decorative romantic work of the same period.

8 Liang K'ai was a famous Chan (Zen) Buddhist priest painter of the mid thirteenth century. This hanging scroll of a walking priest is typical of his style. He used his ink and brush with the bravura of the academic Southern Sung masters but added to this the Chan directness. The priest's personality is expressed with great simplicity.



9 One of the most revered paintings in China is "Fu Ch'un Mountains" by Huang Kung-wang. This ink on paper hand scroll was painted over the space of about three years when the artist, one of the Four Great

7 Fine quality grey stoneware with a thick blue-green glaze was produced by the kilns of the upper Tung River valley. It was known in Europe as celadon ware. This mallet shaped vase is of Lung Ch'uan celadon ware (late twelfth or early thirteenth century). Typically, it is simple in shape and decoration and depends for its quality on the exceptional texture of the glaze. Some of the world's most elegant ceramics were produced at that time and this represents one of the classic wares appealing to the refined Southern Sung taste and to the scholarly taste of later periods.



Masters, was an old man. It typifies the character of the scholar artist with its direct simplicity of technique which is based on the old masters, and the evocation of a quiet mountain landscape.



Japan 200 BC – AD 1185

By the first century AD successive waves of settlers from the Asian mainland, coming mostly through Korea, had brought three crucial skills to Japan. The casting of iron and bronze produced more effective tools and weapons. The potter's wheel speeded the production of earthenware. But more important than these was knowledge of rice and irrigation which replaced hunting and fishing with settled agriculture. The resulting Yayoi culture was based on farming villages [2] which had little or nothing by way of large scale political organization.

Unification of Japan

In the third century AD a Chinese chronicle *Wei Chih*, described Japan as a country of more than "100 communities" that had been united by Queen Pimiko. Some clan (L'u) leaders had sufficient power to organize the construction of vast chambered tombs, one such family claimed descent from the sun goddess, and emerged as head of a loose confederation of powerful clans.

By the sixth century this embryonic Yamato Imperial House [Key] had organized

Japanese intervention in Korean civil conflicts. This brought contact with Chinese ideas and skills which swept down the Korean peninsula, leading to a second and more radical transformation of Japanese life.

Buddhism [3], Confucianism, medicine, astronomy, Chinese-style architecture and the Chinese script all entered Japan in the sixth and seventh centuries [1]. Scholars travelled to China [5] and soon Japan's central rulers sought to model their state upon the bureaucracy of China's Tang Empire. In 592 Shōtoku Taishi [4] became regent and began a programme of spreading Buddhism and widening the power of the Yamato Imperial House.

In 646, measures known as the Taika Reforms included the imperial control of rice land, systematic taxation, and a nationwide network of imperial officials. At the centre of the new state was to be a Chinese-style capital with palaces, temples and broad straight avenues linking public buildings. China's system of civil service examinations was never reproduced, however. Powerful provincial families remained remarkably

independent and a conscription system proved inefficient. Yet the legal codes of 702 were detailed and far-reaching and Heijō (Nara) contained impressive structures that still survive.

At the close of the eighth century the political influence of Buddhism had become so great that one priest, Dōkyō, attempted to capture the imperial throne. Partly in response to this danger the court set up a new capital at Heian (Kyōto) in 794.

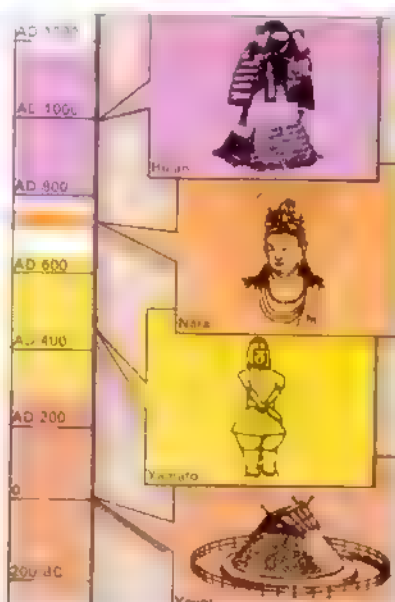
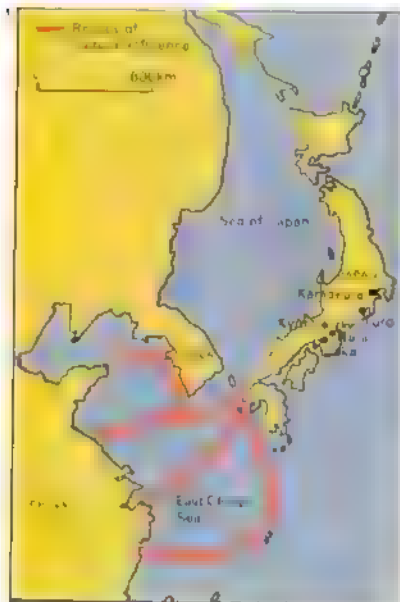
Rise of Fujiwara

After 50 years of stable administration events at court produced new threats to imperial authority. The Fujiwara family had been loyal state servants throughout earlier centuries but now they used intermarriage and masterly intrigue to dominate palace appointments. In 857 Fujiwara Yoshifusa became grand minister. Soon after, his grandson was made child-emperor with himself as regent. Later Fujiwara remained regents after infant emperors reached maturity, and throughout the eleventh century they wielded overwhelming power.

CONNECTIONS

See also

— Korea —
— China —



1 Routes by which Chinese culture and Buddhism entered Japan were established by the 9th and 10th centuries. Contacts dated from c. AD 400 when the King of Paekche, in Korea, sent scholars

to Japan with Confucian writings. Koreans brought Buddhist writings and sculptures in the 6th century and Japan then began sending official emissaries and students to Tang China.

2 A house of the Yayoi period (250 BC–AD 300) was reconstructed at Toro in the suburbs of Shizuoka where the foundations exist of 11 houses, granaries and irrigation channels for paddies.



3 A mural painting of a Buddhist deity in the Kondo of Hōryūji temple, Nara, is in the style of contemporary Tang painting of the 7th or 8th century and reveals the Indian origins of Tang and Korean Buddhism. Only fragments of these murals remain, but in China no similar works survive at all.

4 Shōtoku Taishi (571–621) made a profound study of Buddhism and founded such important temples as Hōryūji in Nara. He also tried to introduce Confucian ideas into the Japanese state and proclaimed a code of government in 604. The painting shows him in Chinese-style robes and is in the manner of a Chinese imperial portrait.



The Heian capital was the scene of outstanding cultural achievements. Where still the dominant arts of Nara had been, in the Chinese Tang style, the new regime severed links with the continent and developed native styles that were authentic expressions of Japanese sensibilities. Architecture became less flamboyant and more refined. Vivid picture scrolls illustrated historical and literary themes. A new phonetic script supplemented Chinese characters and permitted more supple forms of expression. *The Tale of Genji* (c. 1000), Japan's most famous novel, was written by a court lady of the Heian capital.

Warrior families and court life

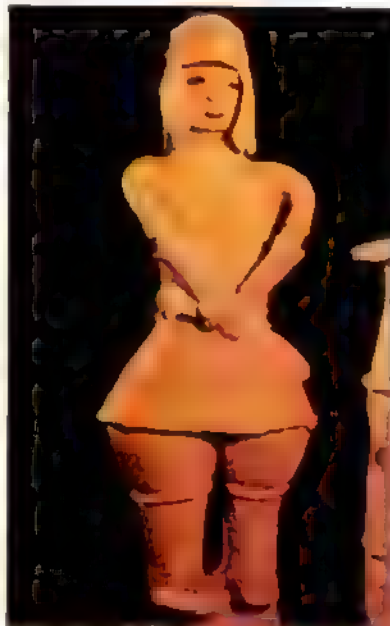
Parallel with the weakening of imperial authority came the rise of provincial families with new sources of power. To maintain law and order and combat northern aborigines, these lords increased their armies and became increasingly oblivious of imperial control. Their independent estates (*shoen*) paid little to the capital but stimulated the economic development of other territories.

These new centres of agriculture and organization produced leaders with a practical military ethic indifferent to many of the pretensions of court life.

In the eleventh century courtiers recognized the might of this new class and invited the powerful Taira and Minamoto families to aid them in suppressing dangerous rebellions. The Fujiwara may have hoped to control these robust warriors [6] but soon the Taira had replaced them as the effective masters of palace and throne. Taira Kiyomori used force and intrigue to overpower his rivals and in 1180 made his infant grandson emperor. After 20 years of dominance the Taira appeared unchallenged in the capital but military power was now the only determinant of politics and the Minamoto rebelled against the new overlords of Heian-kyō.

From 1180 to 1185, these two families and their coalitions were embroiled in nationwide warfare. By 1184 the land forces of the Taira were annihilated and a year later their navy was destroyed. Now the Minamoto [8] were masters of Japan. Warriors ruled from their capital at Kamakura.

KEY



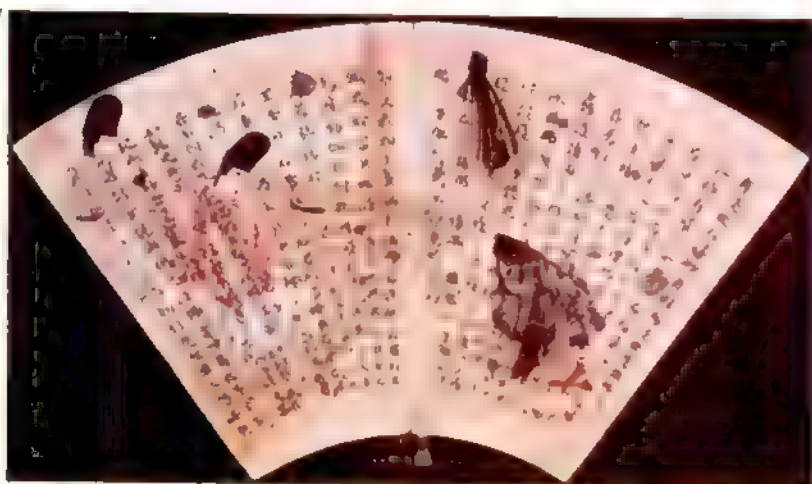
A *haniwa* is a hollow pottery figure designed to house a spirit, which was often placed on the burial mounds of clan leaders and members of the imperial family. This figure is of an armoured warrior or comes from the Yamato period (c. AD 300-c. 625). Figures also exist in the form of animals, buildings and boats as well as men and women. The idea of an anthropomorphic grave status was native to the Shinto tradition, when Buddhist craftsmen came to influence the Japanese artists, they brought refinement, but not the basic idea. Japanese *haniwa* differ from Chinese statues by having a hollow 'eye' allegedly the entrance for the spirit within.



5 Naindaimon, an imposing Chinese-style structure, is the main gateway to Todaiji Temple. The style of the gateway reflects the architectural trend towards strength and simplicity that typified the Kamakura period and indicates the wide cultural links Japan developed with Tang China.



6 Japanese armour of the Kamakura period shows the artistry associated with the late Heian period and the rise of a provincial military class that demanded very high skills of workmanship. Warriors often donated fine armour to important shrines. Their personal code emphasized simple dignity and courage.



7 This hand-painted copy of a sutra (Buddhist scripture) dates from the late Heian period. It was believed that copying sutras by hand was one way to gain

rebirth in Paradise. This was a feature of the Buddhist cult—the Jōdo cult—which arose in the late 12th century and laid great stress on afterlife.

8 Minamoto Yoritomo (1147-99) led the armies that destroyed the power of the Taira family in 1185. This conflict, immortalized in *The Tale of Genji*, in-

spired many important works of literature. Shown here in formal dress, Yoritomo set up his capital in his own territory, far from the imperial capital.



Japanese art

Japanese art since the introduction of Buddhism in the sixth century owes much to mainland China and Korea [1] and therefore it is sometimes dismissed as derivative. This is far from the truth, although the Japanese always ready to absorb new influences, use imported techniques and ideas and in their own ways create new styles.

Early Japanese art

Until the sixth century Japanese art had been relatively simple but under the tuition of craftsmen from Korea, and later China, there was a burst of development in the arts and in government that led to the art of the Nara period (645–794). Much of its architecture and sculpture in wood, bronze and dry lacquer survives in temples to this day; in the eighth-century treasure-house in Nara, the Shōsō-in, quantities of lacquer, pottery and leather work, as well as painting and embroidery, give us a good picture of the arts and crafts of the period.

In the succeeding Heian period (794–1185) the Buddhist arts took on a more national flavour while the elegant court of the

period, immortalized in the novel *The Tale of Genji* [4], is depicted in the famous scroll in Yamato-e style ('the Japanese style'). The Yamato-e style differs fundamentally from Chinese styles in its lack of interest in the brushstroke and in its use of flat areas of opaque colour.

In the thirteenth century there was a revival of the Nara styles in Buddhist sculpture led by the Kaikei school and painting diversified into several groups according to the separate Buddhist sects. Secular art continued in the form of handscrolls depicting histories or satires while the handscroll format (originally a book) was also used by Buddhist artists.

Innovations from China and elsewhere

The arts flourished under the rule of the Ashikaga family during the Muromachi period (1333–1573) in spite of civil wars. Renewed contacts with China enabled painters from the Zen Buddhist monasteries to visit China and Korea and learn the art of ink-painting from Chinese painters [5]. At first the painters' academy was exclusively

filled by monk-painters. As interest in mainland culture spread, two secular schools of painters arose, the Ami school and the more important Kanō school.

The Kanō school, which later became the 'Classical' school in Japan, was a basically Chinese style but infused a decorative quality quite alien to Chinese scholar-painters' ideals. When in the Momoyama period (1573–1616) Kanō Eitoku [6] invented the use of gold leaf as a background to screen painting in opaque colour, a new unparalleled richness was introduced to Japanese art while retaining the brushstroke of Chinese convention but using Yamato-e colour. This decorative effect was ideally suited to the tastes of the new military leaders who succeeded the Ashikaga, where the Ashikaga rulers had encouraged the elegance and simplicity inherent in the aesthetics of the tea ceremony. Oda Nobunaga and his successor Toyotomi Hideyoshi wanted grandiose display. During this period the minor arts flourished as never before. Lacquer, pottery and metalwork, particularly that associated with the sword and its fittings, all reached a

CONNECTIONS

See also

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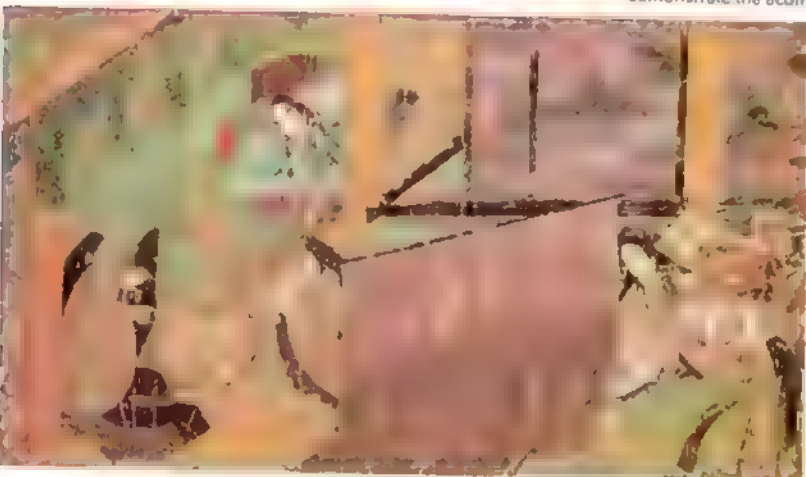
1 Carved in wood, this bodhisattva (future Buddha) is 7th century and in Korean style.

2 The Phoenix Hall of the Byōdō-in near Kyoto (11th century) was so called because it is said to resemble a phoenix with outstretched wings. This beautiful building demonstrates how Japanese Buddhist architects interpreted Chinese ideas and refined Chinese construction methods.



3 This portrait sculpture in wood of the statesman Uesugi Shigefusa (14th century) is in a style which did not continue long. It does, however, demonstrate the economy of line and

feature common to most later styles of Japanese portraiture. Portraits of laymen appear first in the 14th century, following posthumous Buddhist portraits of sages.



4 *The Tale of Genji*, a 10th-century novel by Murasaki Shikibu, was illustrated in the Yamato-e style in the 12th century. As convention dictated the view is from above with emphasis more on decoration than on the figures.

5 Sesshū (1420–1506) was a painter who had visited China and learned the art of ink painting from Chinese painters. This autumn landscape illustrates how he gave a distinctive Japanese flavour to the Chinese ink style.



peak of excellence. Military men prided themselves not only on their bravery and skill with the sword, but also on their ability to write verse and paint in ink.

Influences in recent times

Hideyoshi's successors, Tokugawa Ieyasu and his family, ruled Japan until 1868. The Edo or Tokugawa period was one of rigid exclusion or control of contact with the outside world in order to retain internal peace. Trade flourished within Japan, and brought with it prosperity for a new merchant class. This in turn brought new styles of painting and new ventures in the decorative arts.

The porcelain industry [9] began in Kyushu and in the middle of the seventeenth century started exporting to Europe and the Near East via the Dutch, who were allowed with the Chinese limited trade facilities.

The declining standards of the Kano school assisted the rise of a new, popular school, Ukiyo-e, the school of the print artists, who produced printed books and broadsheets, theatre posters and ephemera for the dissolute world of the Edo. Their sub-

jects were the "pop heroes" of the day: courtesans, actors, dramatic moments of plays and erotica.

New contact with Chinese painting introduced the scholar's style, Nanga, and subsequently two partial offshoots from this, the realist style of Maruyama Okyo and the controlled yet dashing Shijo style produced by Matsumura Goshun.

With the intrusions of the West into Japan in 1868 this activity changed abruptly. Western fashions became the rage, the court wore morning dress and top hats, painters studied oil-painting in Paris, and only the intervention of such enlightened men as Ernest Fenollosa (1853-1908) prevented neglect or even wholesale destruction of Japan's artistic and architectural heritage. In this century there has been not only a swing back to native ideals in many of the arts and crafts but also a serious expansion into Western materials and methods, so that Japanese artists are, for instance, among the leading print makers, while such architects as Kenzō Tange are among the best exponents of a wholly international style.

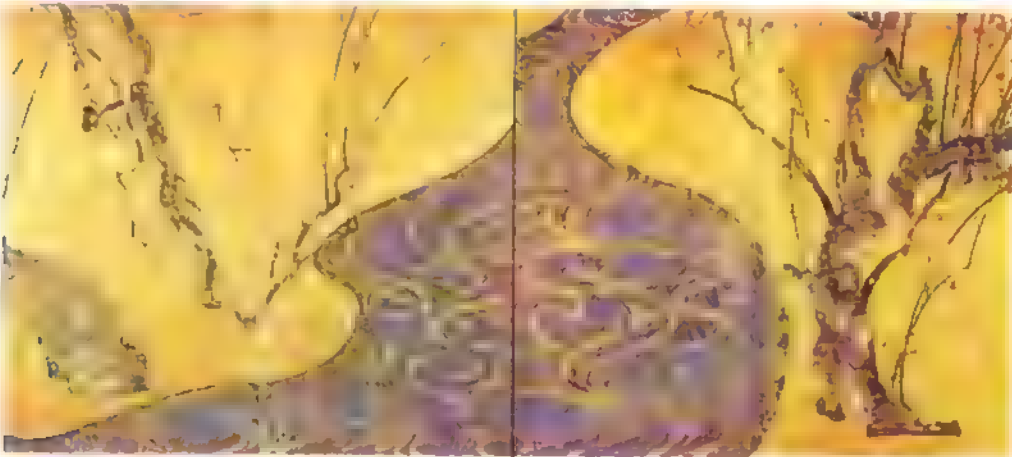
The Horyuji temple, Nara, is a seventh century five storied pagoda similar in design to wooden pagodas of the Tang dynasty in China.



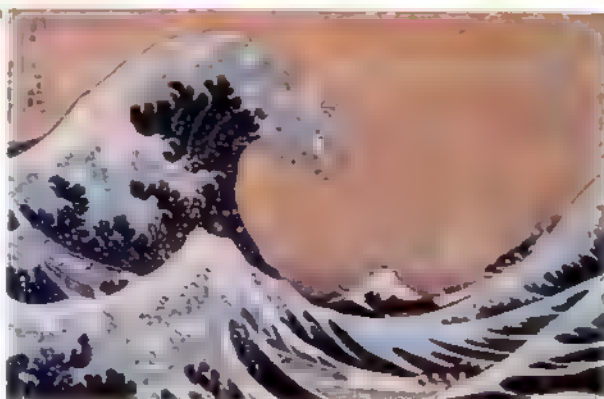
6 These iron dogs are attributed to

Kanō Eitoku (1543-90), one of the

greatest painters of the Kano school.



8 These screens are called "Red and White Plum Trees" and were painted by Ogata Kōrin (1658-1716). They are a supreme example of the Rimpa or "Decorative" school of painting and they show the characteristic abbreviation of natural objects treating them in a conventional way in a layout that is wholly original. Yamato-e was used for simplified yet decorative effects.



9 Porcelain was exported to Europe via the Dutch from 1650 onwards. Enamelled wares like this Kaikemon vase of the late 17th century inspired Meissen white blue and white wares influenced earthenware design in Delft and elsewhere.

10 "The Hollow of the Deep Sea Wave" is one of a series of 36 views of Fuji in woodblock colour prints by Katsushika Hokusai (1760-1849).

7 A screen of pine trees in a mist is one of a pair by Tōhaku (1539-1610), one of the contemporary rivals of the

Kanō artists. It shows how skillful ink was retained by artists who otherwise used brilliant colour and gold leaf.



The rise of medieval Western Christendom

The barbarians who destroyed the Western Empires in the fifth and sixth centuries were either pagans or Arian heretics who denied the unity of God the Father and Son and violently rejected Roman Christianity. By the sixth century Europe needed to be reconvered. Missionary activity from Rome followed the growth of Benedictine monasticism and a rejuvenation of the papacy. St Benedict (c. 480–c. 547) lived in Italy when it was ruled by the Arian Ostrogoths. About the year 500 he had begun a hermitical life at Subiaco with emphasis on the performance of the liturgy and on a community life of moderate self-denial. In c. 529 he founded the Abbey of Monte Cassino, one of the bulwarks of Christianity and civilization in early medieval Europe. He also wrote a Rule for his monks that was humane and ensured the durability of his ideas and institutions [Key]

The Papacy – spiritual and temporal

The medieval papacy was founded by Pope Gregory the Great (c. 540–604) [2], who was a firm supporter and propagator of monasticism. He became pope in 590, a time

when the power of the Byzantine governors of Italy was rapidly declining and the Arian Lombards threatened to reduce the Papacy to little more than a Lombard bishopric. Gregory himself managed the Church estates in central and southern Italy, organized the defences of Rome, appointed governors of the leading Italian cities and in 592–3 made peace with the Lombards without reference to the Eastern Emperor. The Papacy henceforth existed as a temporal as well as a spiritual power in the West.

The Franks were the first of the barbarians to be converted when Clovis (465–511), founder of the Merovingian monarchy, was baptized, probably in 497.

Gregory dispatched St Augustine to England in 597 with monks from his own Roman monastery to begin the reconversion of Britain. But Britain was reconvered from two different directions because the Irish, who had remained Christian after the mission of St Patrick in 444 [7], had sent St Columba to Scotland c. 563 to found the monastery of Iona and convert the Picts. In c. 635 St Aidan went from Iona to Lindisfarne to convert the

English in Northumbria. There the Roman and the Irish traditions met and the result was the most advanced and flourishing culture of seventh- and eighth-century Europe [3].

Anglo-Irish influence

The Irish also penetrated deep into mainland Europe [4]. In 590 St Columban established monasteries at Anagninum and Luxeuil in the Vosges. Expelled from Burgundy for criticism of the behaviour of the court, he went to Italy to found the monastery of Bobbio which set an example that was the most important impetus to the conversion of the Lombards. These and other Irish monasteries reintroduced the Catholic faith and brought with them their libraries, both classical and Christian, which had remained safe in Ireland during the migration period. The influence of the Irish on European culture can hardly be overemphasized.

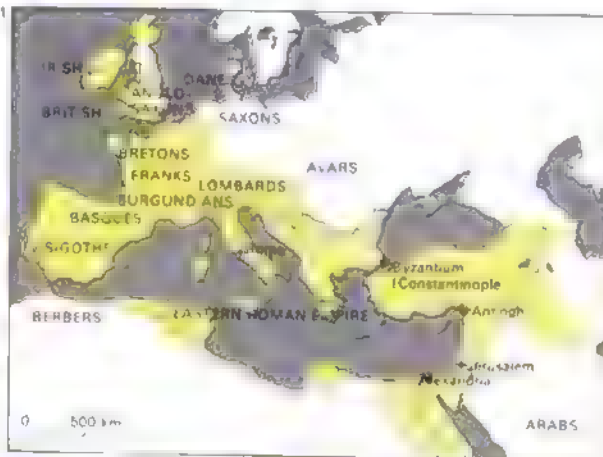
Frisia and Germany were converted from Britain in the eighth century. Willibrord (c. 658–739), the apostle of the Frisians, was a Northumbrian who had joined a monastery in Ireland. Boniface (c. 680–754), an

CONNECTIONS

See also

1. The Roman world reached its greatest extent c. 600. North Africa, Rome and Ravenna were reconquered from the Arian Goths by Justinian in the mid 6th century. In the north, the Irish had been converted about 430, the Franks in 496, the Burgundians in 516 and the Visigoths in 589. The Anglo-Saxon missions began in 597. The new Christian unity of the Mediterranean, however, lasted only until the Arabs in the 7th century conquered an empire from Syria to Spain including three of the five original patriarchates: Antioch, Jerusalem and Alexandria.

1 Orthodox Christianity in the 6th century The Roman world reached its greatest extent c. 600. North Africa, Rome and Ravenna were reconquered from the Arian Goths by Justinian in the mid 6th century. In the north, the Irish had been converted about 430, the Franks in 496, the Burgundians in 516 and the Visigoths in 589. The Anglo-Saxon missions began in 597. The new Christian unity of the Mediterranean, however, lasted only until the Arabs in the 7th century conquered an empire from Syria to Spain including three of the five original patriarchates: Antioch, Jerusalem and Alexandria.

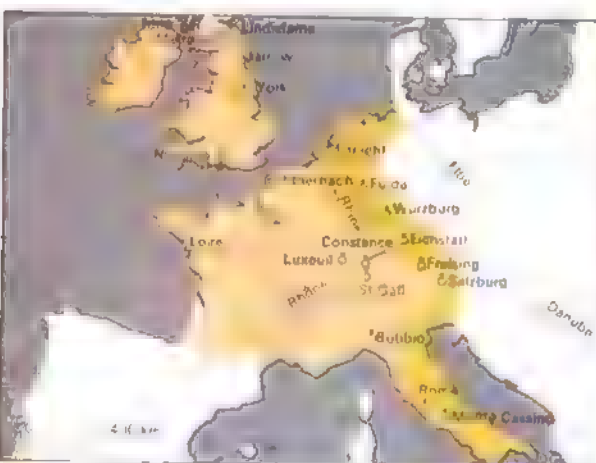


Majority are Christian by 600
+ Patriarchates
Eastern Roman Empire

3 The Ruthwell Cross, possibly either a mass or preceptory cross, is the finest monument of Northumbrian art during the

British cultural renaissance of the 7th century

British cultural renaissance of the 7th century



Celtic monasteries and their influence
Anglo-Saxon monasteries and their influence

4 Many European monasteries were founded by missionaries from Ireland where Christianity and classical

learning had been preserved. Others were founded by their Anglo-Saxon converts.

5 The Gathouse of Lorsch Abbey, in Hessen, West Germany, is an example of Charlemagne's impressive programme of new church building.

2 Gregory I (centre) was elected pope at a time when Rome was under strong pressure from the Arian Lombards. But his energy, dedication and grasp of administration enabled him to give the Roman Church a status it had never previously enjoyed. He established the principle of papal authority in temporal affairs both by his diplomatic initiatives and by asserting control of the patrimony of Peter which later grew into the papal states. By sending Augustine to England in 597, he made sure that the Church in Britain would look to Rome rather than Byzantium. Gregorian chant is named after him.



Englishman, continued the Frisian mission in 716, and in 719 was appointed by Gregory II to convert the Germans. He laid the foundations for the Carolingian Church and was martyred in Frisia in 754 [6].

The Arian Visigoths in Spain were converted to Christianity at the Third Council of Toledo in 589 (although Muslim invaders were soon to dominate the country). In northeastern Europe, conversions were delayed longer. Sweden and Denmark were only temporarily converted by St Anskar in the ninth century, Poland and Hungary in the late tenth and Norway at sword point by St Olav early in the eleventh century.

In the meantime the emperor of the Franks, Charlemagne (742-814), had imported Anglo-Irish missionaries to establish the basis of Carolingian Christianity, backed by energetic church building [5]. The late eighth century also saw an alliance between the pope and the Frankish emperors against the Lombards and the creation of the idea of the Holy Roman Empire. Anglo-Saxons, Germans and Franks all visited Rome, accepted the lead of the Papacy and

bought relics for their native dioceses [8].

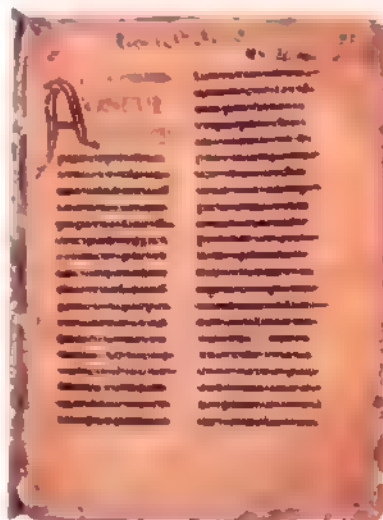
The rise of the Holy Roman Empire saw a marked decline in the standards of the Church. There was widespread simony (the selling of ecclesiastical appointments), monasteries became rich and lax, and the Papacy itself was corrupt.

Church reform

Reform of the Church began at the house of Cluny, a Benedictine monastery in Burgundy [9]. Under Abbot Odo the Benedictine Rule was strictly enforced. The spirit of Clunian reform permeated all aspects of Western Christianity, culminating in the pontificates of Leo IX [10] and Gregory VII (1073-85).

In 1054, the last year of Leo IX's pontificate, the Western Church broke with the Eastern. The Patriarch of Constantinople would not accept the universal supremacy of Rome, nor the people of the East the liturgy and practice of the Roman Church. Leo IX and the Emperor sought a political settlement between East and West to thwart their common enemy, the Normans, but the rift in religious practice was too wide to heal.

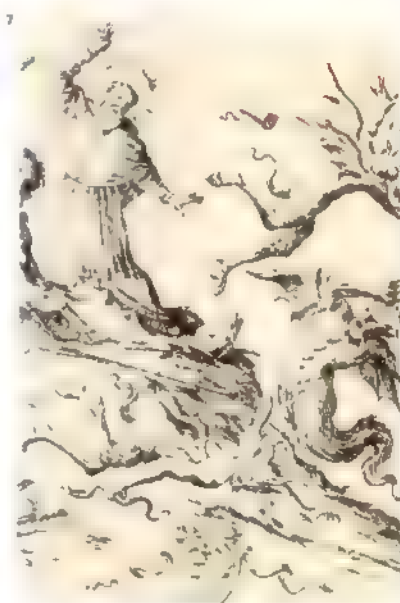
KEY



The Benedictine Rule was the cornerstone of the early medieval Church. It contained strict yet reasonable regulations for monastic life, in contrast to the ascetic excesses of Eastern monasticism. The Rule stressed the value of religious community life, humility, self-denial and the performance of the liturgy. For 600 years after Benedict's death in c. 547 there was no other monastic rule in the West. Its followers have included 20 popes and many pioneer missionaries. The learning and education of Benedictine monasteries in the Dark Ages also provided the only training for administrators faced with the increasingly complex problems of government.



6 The story of the martyrdom of St Ursula is the most famous of the martyrdom legends from the barbarian period. The saint, together with her companions, was murdered by the Huns in Cologne in 454 still protesting her virginity and her faith. Her triumphal funeral is shown in a painting by Vittore Carpaccio (1480). The cult of local martyrs became increasingly important during the reconversion period, at which time the supposed number of St Ursula's companions was increased to 11,000 by a clerical error. A notable missionary martyr was St Boniface, who went to Frisia and was murdered at Dokkum in the mid 8th century with 30 other monks.



7 St Patrick, a Romano-Britain is credited with converting Ireland between 430 and 461. Ireland was the only country to escape the invasions of the 5th and 8th centuries. Christianity was preserved, along with many manuscripts containing both secular Latin and Christian literature. Irish missionary impetus was a prime factor in the re-education of Europe but its loosely ordered yet ascetic monasticism conflicted with the usages of the Roman Church after the reforms of Gregory the Great. This conflict was resolved at the Synod of Whitby (664) and led to period of peace which saw the creation of a British culture unrivalled in the rest of Europe.



8 Relics became an essential part of the furnishings of every church in the 9th century. They were housed in the greatest magnificence, as in the High Altar of St Ambrose in Milan decorated by the German Volpinius about 835.

9 The Abbey of Cluny saw the start of the reform of the Benedictine system with a strict adherence to the Rule and stress on the splendour of the liturgy. This is the third church at Cluny dedicated to these ideals.



10 Leo IX, who was pope from 1049-54, was an ardent supporter

of Clunian reform. He began to improve papal standards.

The barbarian invasions

"Barbarian" was a term of abuse used by the Romans to describe anyone outside the Mediterranean civilization of Greece and Rome. Since the time of Caesar the frontiers of the Roman Empire had been menaced by invading Germanic peoples, many of whom were conquered, after which they settled as fairly peaceable - though armed - colonists.

The frontier that extended from the North Sea to the Black Sea via the Rhine and Danube was under renewed pressure in the fourth century from a fresh wave of hostile German peoples: Franks, Saxons, Burgundians, Visigoths, Ostrogoths, Sueves, Alans, Vandals and Gepids [Key]. Their societies were based on the clan and their tribes were relatively small in number, ranging from about 25 000 to 120 000; all able-bodied men were soldiers and farming was done by slaves. Their armies, supported by a powerful cavalry, proved too strong for the last of the Roman legions. The barbarians were converts to Arianism, a heresy abhorrent to orthodox Christians because it denied Christ's divinity. The westward pressure of these peoples at the end of the fourth century

was due to overpopulation and shortage of food as well as the arrival of the Huns, a fierce nomadic Mongol people from central Asia who came to pillage rather than to settle.

Eastern Roman Empire

The Eastern Roman Empire was threatened by barbarians on all fronts [2]. In Asia Minor it was under pressure first from the Sassanid Persians and later, after 622, from the rapid expansion of Islam. On the Danube and in the Balkans the threat of the Germans and Huns was ever present.

After the death of Theodosius the Great in 395 the Visigoths rose in Lower Moesia under Alaric (c. 370-410). The Eastern emperor Arcadius persuaded them to move west where Alaric was made Master of the Soldiers in Illyricum (coastal region of modern Yugoslavia). It was therefore as a Roman general that Alaric led a German invasion of Italy in 401-3. He invaded Italy again in 408 and in 410 captured Rome.

In 406 vast armies of Vandals, Sueves and Alans crossed the Rhine into Gaul which was already troubled by internal conflicts in the

imperial administration. External attack and internal conflict led to the withdrawal of the last legions from Britain where the Angles, Saxons and Jutes were now free to invade.

The Vandals ravaged Gaul, moved into Spain in 408 and, in 429 under the leadership of Gaiseric (c. 390-477), accomplished the most crippling blow of all to the Western Empire - the invasion of Africa. In 442 Gaiseric was recognized as the independent ruler of North Africa on which Rome depended for the bulk of her food.

The first German empires

By 416 the Burgundians in Gaul had established the first German kingdom within the old imperial frontiers and with the Franks scattered across northern France the pattern of post-Roman western Europe was beginning to emerge. But any hopes of peace were shattered by the Huns, who for nearly a century had been stable in what is now Hungary, threatening east and west alike and building up an enforced alliance of subject German peoples. In 450 the empire refused to buy off the Huns with any more gold so led

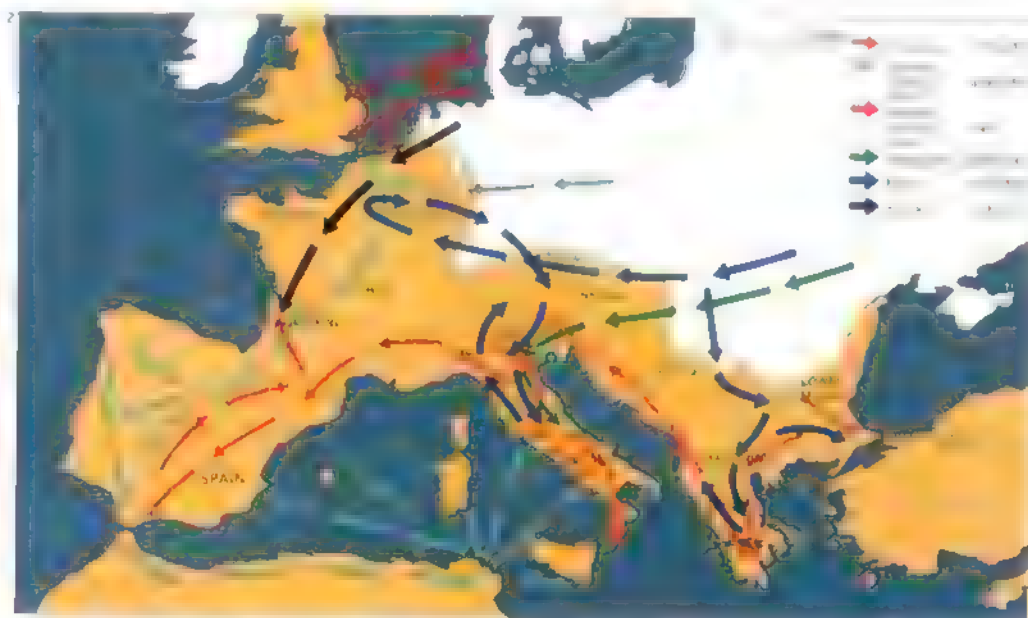
CONNECTIONS

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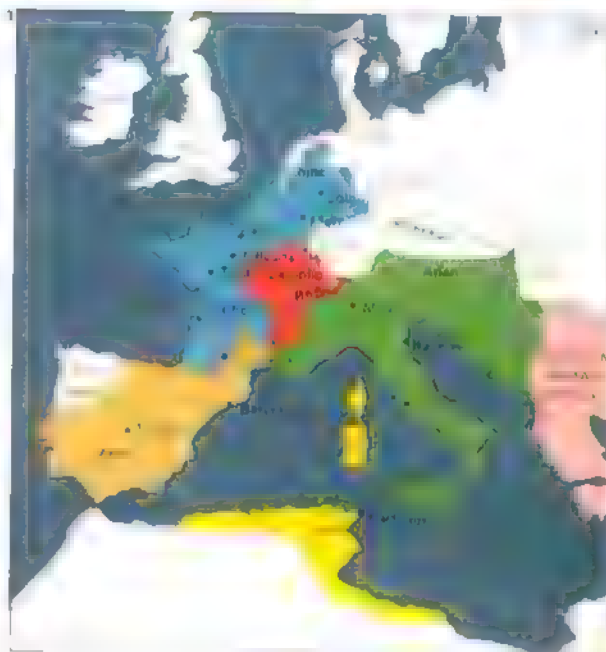


1 At the time of their invasion of Gaul in the 5th century, all freemen within the Frankish tribe were warriors. The Frankish army was mainly infantry rather than cavalry. Their most redoubtable weapon was the battleaxe, the *francisca*.

2 Although they also fought with the cutting sword (2) and bows and arrows (3), because metal was scarce the round shield (4) was made of wood covered with stretched hide. They wore close-fitting tunics (5) and plumed helmets (6).



2 A chaotic wandering of barbarians within the confines of the Western Empire followed the collapse of the Rhine and Danube frontier. The barbarians, although quite uncoordinated, had four targets: Constantinople, Macedonia and Thrace, Italy, north-eastern Roman Gaul, and North Africa - the granary of the Western Empire. Without any preconceived plan of attack, the citadels of the empire fell according to a domino pattern. Westward pressure was intensified as more tribes arrived from the east, in particular the Huns. The crucial blow to the empire was the Vandal invasion of Africa which, by 429, left Rome surrounded and the Vandals controlling the western Mediterranean.



3 The barbarians gradually formed independent kingdoms in the west. They expropriated some property but left much of the Roman landed aristocracy and administration intact. Roman and Teutonic societies existed side by side in an uneasy balance, the military strength of the invaders bringing the defensive capacity that defeated the Huns in 452. The Huns remained nomadic and never founded a lasting kingdom. The barbarian kingdoms were the origins of the national boundaries of medieval western Europe.

Kingdom of

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by Attila (c. 406-53), they invaded Gaul. The Huns, with their powerful horses and incredible stamina, were considered almost invincible and were only halted near Troyes in 452 when the Franks and the Visigoths joined forces with the Romans. Attila turned south and menaced Rome, but died in 453 [7]. The destruction was widespread but the Germans had saved the legacy of Roman civilization in the west.

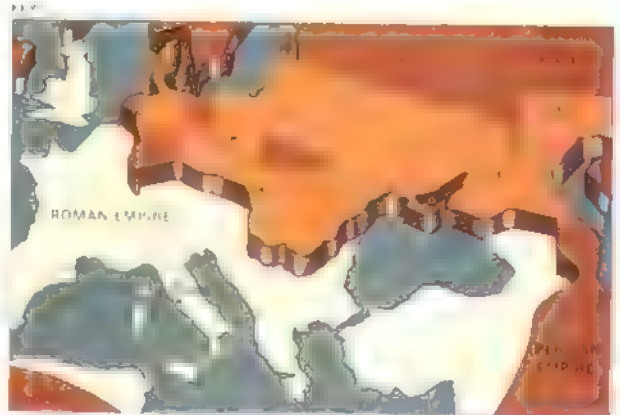
The Franks gradually consolidated their power in Gaul. Under Clovis I (465-511) they created a united and non-heretical Christian Gaul (Council of Orleans, 511) and Clovis was recognized by the Eastern emperor as the ruler of a country that roughly corresponds to modern France. He was baptised following his victory over the Alemanni.

After the deposition of Augustulus, the last Western emperor, in 476, the German soldier Odoacer (died 493) became the ruler of Italy. Meanwhile the Ostrogoths had left the Black Sea area and after the downfall of the Huns had moved into Pannonia and thence to Illyricum. Led by Theodoric from 471 they ravaged Macedonia and Thessaly

and in 487 marched on Constantinople. Theodoric was bought off by the emperor Zeno, who persuaded him to go to Italy and overthrow Odoacer. Theodoric defeated Odoacer on the River Adda in 490 and after a three-year siege of Ravenna Odoacer gave in. Theodoric assassinated him and established the Ostrogothic kingdom in Italy [8].

The Eastern Empire

The Eastern Empire averted most dangers from the Germans and the Huns by passing them over to the west, but the Balkans were ruined and depopulated and the Bulgars were able to threaten Constantinople in 493 and 499. In the east the emperor Justinian (c. 482-565) fought for 35 years against the Persian king Chosroes (reigned 531-79). The balance of power in the Mediterranean was temporarily reversed by Justinian's reconquest of Africa (533-4) and Italy (536-54), yet all this effort was wasted when, in the following century, the Arabs overran all imperial lands from the Middle East to North Africa, besieging Constantinople annually until their fleet's defeat there in 718.



- 1 Jutes
- 2 Angles
- 3 Saxons
- 4 Franks
- 5 Burgundians
- 6 Thuringians
- 7 Sueves
- 8 Vandals
- 9 Ostrogoths
- 10 Visigoths
- 11 Gepids
- 12 Alans
- 13 Huns

Barbarian tribes c. 395
 Tribes not invading the Roman Empire 395-611

The positions of the barbarian tribes to the east of the Roman frontier along the Rhine and Danube rivers changed constantly. The pressure

on Rome's increasingly ill-defended northeastern frontier was kept up by the arrival of new warring peoples who were impelled relentlessly westwards from central Asia by hunger and nomadic life style. The Huns invaded Italy in 452.

4 The highest achievement of barbarian art was in its metalwork.

The 6th-century silver gilt dish from Sassanian Persia (B) was the equal of any contemporary east Roman metalwork. In the west, work ranged from the sternly Teutonic Visigothic crown (A) to the Anglo-Saxon Alfred Jewel (C). This is made of continental cloisonné enamel and has classical motifs and a figure of Spring (or Christ).

5 The Mausoleum of Theodoric is the tomb of the first king of Ostrogothic Italy. It was built about 530 and is circular in shape, surmounted by a monolithic dome of Istrian stone weighing 477 tonnes.



6 Raphael's fresco of "The Repulse of Attila" (1513) shows Attila and his Huns confronted by Pope Leo I, protected only by the miraculous intervention of St Peter and St Paul. Attila repulsed by

the Romans and Visigoths near Troyes in 452 and by Leo in Italy retired to Pannonia and died on his wedding night of a burst blood vessel. Four events which saved the legacy of Roman civilization.

7 German barbarians, when converted to Christianity, adopted the Arian heresy that denied the divinity of Christ. Theodoric having established the capital of his Italian kingdom at Ravenna, built an

Arian cathedral and baptistery. The mosaics in the baptistery show the formalized presentation of Christ with the Apostles moving towards an altar throne as scene the Eucharist.

taken from the fourth chapter of the Apocalypse. The existence of Arian and Catholic buildings side by side in the same city exemplifies the spirit of co-existence that prevailed in Theodoric's Italy.



8 The Breviary of Alaric II, king of the Visigoths, an illuminated detail of which is shown here is a collection of Roman law. Alaric's capital was Toulouse and his kingdom stretched into Spain. The breviary, which was completed in 506,

is an important source of late Roman law and is the result of an established Arian German barbarian king seeking to codify and reconcile his native tribal law with that of the lands of the old Roman Empire over which he found himself ruling.



Anglo-Saxon settlement

In the course of the fifth and sixth centuries the once-unified Roman province of Britain was split into a collection of petty kingdoms, barbarian Saxon in the south and east, Celtic in the west and north. The Venerable Bede (673–735) [Key], was clear about the origins of the barbarian invaders and the date of their arrival. They came, he said, in about 450 from three tribes, the Angles, Saxons and Jutes. Modern archaeological research has confirmed that the main regions from which distinct groups of settlers came were indeed Angeln, part of Schleswig and southern Denmark, and Lower Saxony, between the Elbe and Weser river mouths [2]. The identity and origins of the Jutes remains more problematic. Peoples not mentioned by Bede, including Frisians and Franks, also played some part. None of these peoples appears to have retained a separate cultural identity for long after their arrival.

The earliest Saxon settlements

Contrary to Bede's opinion, there were already Saxons living in Britain before the Roman withdrawal. Sea pirates, known

generally as "Saxons", were raiding the eastern and southern coasts of Britain throughout the fourth century [1]. By the late fourth century it was common practice in the Roman army to employ mercenary bands under their own leaders, who fought, often against peoples related to themselves, in return for land and money.

There are large cemeteries in eastern England which contain thousands of cremated burials, many in pots similar to those at equivalent sites of the fourth and fifth centuries on the Continent [3]. Mucking, a village in Essex near Tilbury on the Thames, where occupation began early [7], is a site of some strategic importance, where Saxons would not have been able to settle so early without a position of some power, whether won by treaty or force.

When the regular Roman army withdrew from Britain in 410 the British leaders had to look after their own defence but continued the practice of employing mercenaries. Gildas, a Celtic monk who lived in the sixth century, wrote in graphic but perhaps exaggerated terms of the result of this policy

the barbarians rebelled against their employers and "fire and slaughter spread from sea to sea over the entire island". The story, recounted by Bede, of Hengist and Horsa, mercenaries who rose up against Vortigern who had hired them to protect Kent from the Picts, may have been a significant, although not the only, incident in this rebellion.

The survival of Romano-British society

Gildas was writing within living memory of the events he described, in a period of peace established after a British revival and defeat of the Anglo-Saxons, perhaps under the leadership of Arthur. Frequently the penetration must have been peaceful and gradual. As late as the mid-fifth century the native British had time to indulge in religious dispute, and St Germanus had to visit them twice from Gaul to combat the Pelagian heresy (which denied original sin). Despite the general decay of town life, he visited Verulamium (St Albans), a city in eastern Britain, which contained a functioning water system well into the fifth century.

During the invasions, many of the British

CONNECTIONS

See also

The barbarians

Angles and

Saxons

The Anglo-Saxons

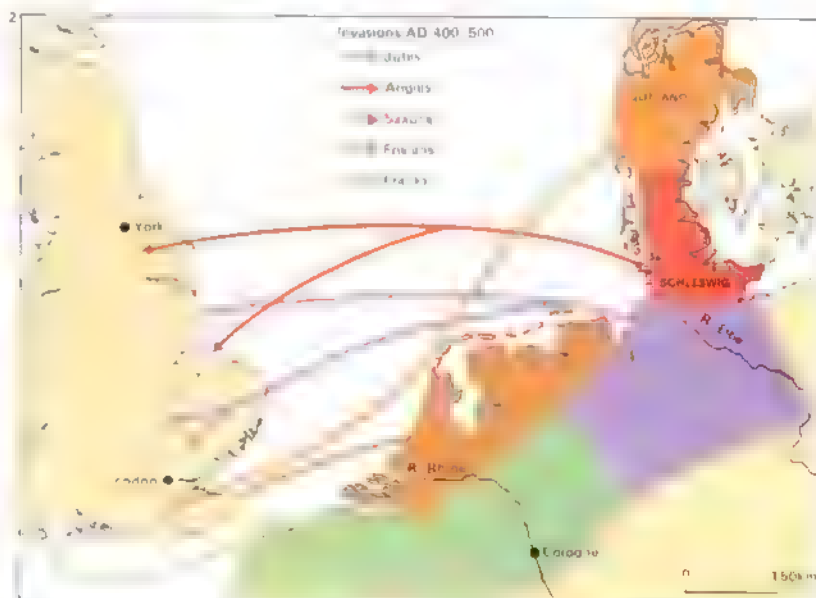
The rise of Wessex

Europe

Britain



1 The "Saxon Shore" forts, shown here in a Roman map, were part of a system built in the 3rd century to protect the south and east coasts of Roman Britain from raids by barbarians. Some of these forts may have been manned by Saxons who stayed after the Roman withdrawal.



2 The 8th century invasions came from the far coasts of the North Sea. The Saxons were from Germany between the Elbe and Weser rivers, the Angles from Denmark and the Franks from the Rhineland. Other tribes came from Frisia. They had been driven from their homes by tribes from the east.



3 Early Anglo-Saxon pots survive in large numbers because they were used for the burial of cremated bodies. They were often clumsy and badly fired, although elaborately decorated. The Continental ancestors of the

settlers also used these pots, so they can now aid in tracing the various tribes in Britain. The Continental Angles made pots with linear grooved patterns [A], while the Saxons preferred bizarre bossed and stamped decoration [B]. In

England these styles became mixed, suggesting a quick loss of separate tribal identity. With the spread of Christianity, burial rather than cremation in pots became the rule. Use of the Romano-British potter's wheel died out by 500.



4 An Anglo-Saxon ship found at Sutton Hoo, Suffolk, in 1939, was the cenotaph or memorial of a great king, and contained much glorious jewellery and many domestic utensils. It is not certain which king the ship commemorated, but he may have been Ræd wald of East Angles. It dates from before the final acceptance of Christianity in that kingdom (c. 660). The invaders were sea-faring people, and ships played an important role in their mythology and religion. The Sutton Hoo ship, which was almost 29m (89ft) in length, is the best example of the boats they used. It was primarily a rowing boat, but may have had a sail. It probably had an elaborate carved figure head on the prow.

aristocracy may have emigrated or been killed, yet it is unlikely that all the existing population could have been slaughtered. Enslavement or absorption through marriage with the invaders were more likely. It is significant that the Anglo-Saxon language absorbed very few Celtic words other than names of natural features; but the Anglo-Saxon word for "Briton" also meant "slave". The barbarian invaders of France, by comparison, were not sufficiently numerous to eliminate the language, which became an amalgam of Germanic speech and Latin. But the distribution of placenames with a British origin suggests that the bulk of the Saxon settlers arrived and settled in the eastern half of the country. Anglo-Saxon penetration to the west was slow, and the invaders may have lived alongside the Britons, instead of displacing them, as was once thought.

The Anglo-Saxon kingdoms

The small warrior bands and groups of migrants, organized by family and clan, evolved gradually into petty kingdoms, of which seven developed into stable entities [9].

5 East Angles was settled earlier and more densely than any other region, being the part of Britain closest to the invaders' homelands. From the pattern of 5th-century burial grounds in England it appears that the immigrants sailed up the rivers and settled along the valleys and Roman roads. Some invaders sailed up the Wash and moved both south and north. Cemeteries at North Elmham in Norfolk and Loveden Hill in Lincoln contain thousands of burials, and show that by the mid 5th century much of the population was already barbarian. The kingdom of East Angles soon became wealthy as can be seen by the treasures found in the Sutton Hoo ship burial of c. 625.



These kingdoms have given the name "Heptarchy" to Anglo-Saxon England from the sixth to the ninth century. Frontiers were not constant, kingship was personal rather than hereditary, and the balance of power was constantly changing. The most powerful king at any one time might be known as the "bretwalda", a name meaning perhaps "British leader" or "power wielder". The bretwalda had an informal power over the other kings. Raedwald (died 625), King of East Angles, who was perhaps commemorated in the great ship burial at Sutton Hoo [4], may have been such a bretwalda.

Until the seventh century the Saxons were pagan. Their conversion to Christianity [6] resulted from two missions, the official Roman one by St Augustine (died 604), who arrived in Kent in 597, and the Celtic monastic one from Ireland [8], which won most favour in Northumbria. Differences in practice between these two, especially concerning the calculation of the date of Easter, led to dispute, which was resolved for Northumbria at the Synod of Whitby in 664 in favour of the Roman tradition.



The Venerable Bede was a monk who wrote the best surviving account of the early Anglo-Saxon period. Working in the early 8th century, he aimed to tell the story of the Church in England. He tried to be more critical of the sources he used (such as earlier chronicles as well as legends and hagiographies) than previous writers and is considered to have been the first English historian. Writing at Jarrow in his native kingdom of Northumbria, he tended to regard Celtic Christianity as heretical, but he admired its great men, especially St Columba (521-97) who brought Irish Christianity to Scotland, and St Aidan (d. 651), bishop of Lindisfarne.



6 The Franks Casket, a small whale-bone box, was made in Northumbria c. 700. Its decorative carvings include pagan and Christian myths, and its inscriptions are in both Latin script

and Germanic runes. This panel shows the Adoration of the Magi and the story of Weland the Smith from Germanic mythology. The Anglo-Saxons often added Christian elements to their existing myths, as

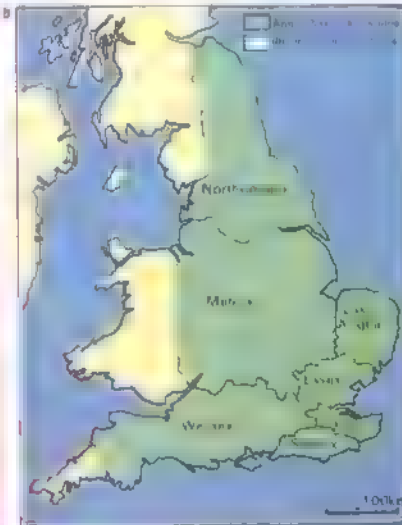
can be most clearly seen in the epic poem *Beowulf*, probably written after 700. But the Church was important in secular affairs by the 7th century and many kings gave land and wealth to monasteries.



7 This bronze gilt belt set was found in a grave in Mucking, Essex. It belongs to a type current in the late Roman army but is in a style found only in England, indicating there was a close relationship between the barbarians and the Roman army.

8 St Cuthbert (d. 687) was one of the best-loved Irish or Celtic churchmen of Anglo-Saxon England. He is seen here being presented with a book by King Athelstan. Although he had a Celtic training, he supported the decisions of the Synod of Whitby

which ended the confusion over the date of Easter. A holy man known for his piety and humility, he was bishop of Lindisfarne. Miracles were said to occur at his tomb, now in Durham cathedral. His history was recorded by the Venerable Bede.



9 The kingdoms of the Heptarchy were often in conflict with one another and some times sought help from

the Celtic kingdoms of Gwynedd in Wales or Dairiada in Scotland. The centre of power altered quickly.

The Celts and Christianity

Prior to the Roman conquest, much of western and central Europe was dominated by Celtic tribes of Indo-European origin. Skilled in the use of iron, which they introduced into northern Europe, the Celts flourished from about 700 BC. They achieved a high level of material culture and also developed a highly complex religion and mythology which formed an integral part of their society. Celtic art reflected the importance of religion and geometrical or magical symbols and cult animals are repeated on objects from all periods of Celtic history, pagan and Christian alike.

The finest phase of Celtic culture

Celtic culture reached its finest achievements during the La Tene period which began about 500 BC and in Europe, lasted until its absorption by Rome. Information about the Celts of this period is obtained both from archaeological evidence and also from Greek and Roman authors. They have recorded details of tribes, kings, nobles and place names, all of which give important information about the Celtic languages which have

survived in a modified but recognizable form in Britain, Ireland and Brittany.

The Celts did not commit their religious beliefs and traditional learning to writing until after the arrival of Christianity in Ireland in the fifth century. The comments of the classical writers of the time when Rome's armies destroyed the Celtic world in Europe therefore have a unique importance. Almost fanatical in their religious fervour, the pagan Celts were dominated by powerful, highly aristocratic priests, the Druids, who often combined the role of king with the priesthood. Tribal in social organization, the Celts also possessed the oldest and most complex legal system in Europe. Every man had his rights, and crimes from murder to the smallest wrong were listed and categorized.

Celtic spiritual tradition

The Celts were highly conservative in matters of tradition. Non-literate, they had a complex oral tradition and were natural scholars with a deep admiration for intellectual power and a passionate love of words. The beauty of nature is depicted in some of their richest

poems, its appeal to the Celts came at a time when their neighbours had little care for such intense spirituality.

It is understandable then that Christianity had such an early and widespread success in Ireland, the only country in western Europe to be totally untouched by Roman arms. Ireland fell in the fifth century, not to disciplined Roman soldiers, but to the equally disciplined Roman Church. All the Celtic fervour for religion was now transferred to the service of Christianity – a very Celtic type of Christianity, noted for its austere devotion and the selfless dedication of its clerics. The detailed and sophisticated laws were now transformed for Christian purposes, the glorious art once used to adorn the pagan warriors' and their shrines and honour the gods now served to praise God in the form of superbly illuminated manuscripts [2, 3], the old pagan symbolism of spirals and circles taking on a new meaning.

In a Europe torn by invasion and disaster of every kind, Ireland remained a haven of peace and learning, far from the terrible ravages of the northern barbarians who from

CONNECTIONS

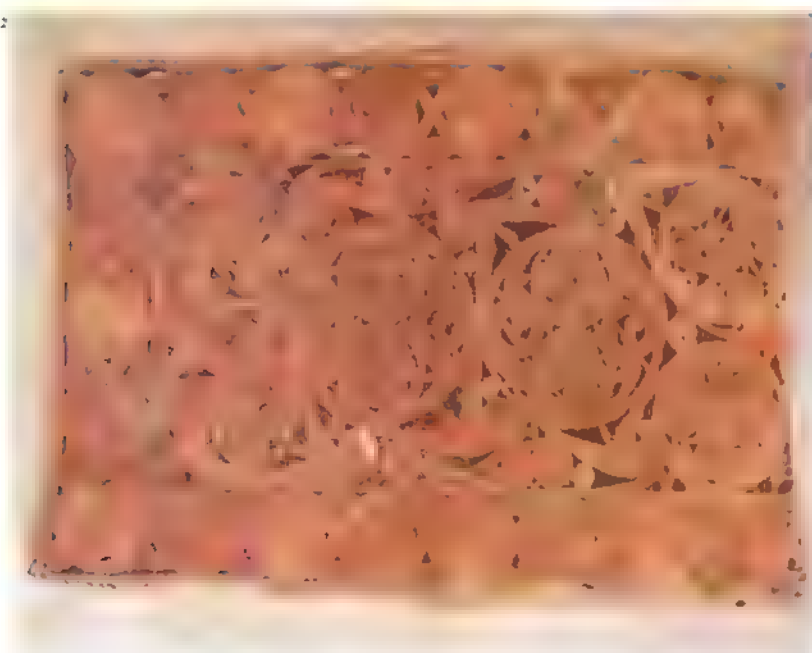
1 The movement of St Columba from Ireland to the continent of Europe, showing the routes of his missionaries and the centres of learning established in Western Europe.



1 St Columba founded his monastery in Iona in AD 563. He was the first of numerous missionaries and scholars who, as shown on the map, established centres of sanctity and learning in Western Europe.

The movement was represented by such figures as Aidan in England (635), Columba in France (635), Columba in Switzerland and Italy (from 590), Feuilien in Belgium (c. 650), Kilian in central Germany

martyred c. 689 and Fearghal in Austria (mid eighth century). Many of the Irish exiles were scholars or monks wanting to evangelize the new pagan tribes who had overrun the Roman Empire.



2 Illuminated manuscripts are one of the great glories of European art, as this page from the seventh-century *Book of Durrow* shows. As Ireland remained untouched by the Roman Empire, its art retained its original style.

3 The great period of Irish manuscript illumination was from the late seventh to the early ninth centuries AD. In these unique works, vitality in the design is combined with austere representations of divine figures, showing by

their elongated, sombre faces their long link with the Celtic past. In the *Book of Kells*, St Matthew is surrounded by decorated panels and motifs which were familiar from the art of Ireland's pagan past.



406 were burning the churches and the towns of Europe and desecrating and destroying all that was sacred and beautiful. The early Irish Church favoured the monastic system and during the fifth and sixth centuries monasteries sprang up throughout Ireland.

The Age of Saints

This long period of tranquility and learning was known as the Age of Saints. It was a time when the churchmen and their guests were occupied in studying the Gospels and illuminating the manuscripts, while the Christian scribes were busily committing to writing the old pagan oral traditions and poems of their country for, although Christians, they were also Celts and loyalty to the rich traditions of their old and much loved country was strong.

Only the coming of the Vikings at the end of the eighth century broke the spell that had made Ireland the cultural centre of the Western world. In the sixth and seventh centuries many Irish churchmen, such as St Columba (521-97), Aidan (died 651) and St Columban (543-615) travelled far over

Europe, founding monasteries and churches, converting the heathen, teaching in the courts, establishing their own schools and inspiring all who came into contact with them by their austere devotion to their calling. Following the Viking invasion, exiled monks continued to travel throughout Europe.

Their rich literature and that of their neighbours, the Welsh, profoundly influenced the evolution of medieval literature and provided new and thrilling themes for the enrichment of the troubadours' repertoires for the entertainment of the rich courts of later medieval Europe.

The Celtic story in Europe does not end in the romances of the courts of Eleanor of Aquitaine and her contemporaries in the twelfth century. In the eighteenth century the famous Ossianic controversy fascinated Europe. Although the poems of the legendary Gaelic bard, Ossian, were subsequently proved to be a mixture of traditional Gaelic folk poetry and poems attributed to James Macpherson (1736-96), they nevertheless inspired writers, painters, musicians and antiquarians with a fresh interest in the Celts.

KEY



This two faced stone figure from Boa Island in County Fermanagh dates from the first century BC. It forms a link with the old pagan world of the Celtic past and the flowering of Celtic religious and artistic genius in the Christian era. It is impossible to say how long paganism lingered in Ireland after the arrival of Christianity. As Roman law and administration on never interrupted the traditions of tribal life and religious awareness, the transition from pagan gods to the Christian God was complicated by the survival of some elements of Celtic pagan tradition. But by the fifth century Christianity was firmly established.

4 The finest of all Irish brooches is the Tara brooch (A) (c. early eighth century). Both sides of the brooch are richly decorated. The back (B) being in a better state of preservation than the front.

4 A

4 B

5 A

5 B

5 The Ardagh Chalices (A) was found in Co. Limerick in Ireland. The contrast of plain surface (silver) decorated with studs

and gold filigree makes a striking impact. One of the more beautiful details is on the underside (B) of the foot of the bowl.

6 High crosses were free standing monuments decorated with Christian or pagan symbols. One of the finest is the ninth century South Cross at Castledermot, Co. Kildare. These crosses presumably stood in the monastic precincts and were of varying heights with the wheel shaped arcs joining the arms and shaft and set on a substantial base.

7 Glendelough in Co. Wicklow was a place of beauty and sanctity sacred to St Kevin. Known as St Kevin's Kitchen (c. ninth century) the building has a vaulted ceiling which supports a corbelled roof in an ingenious manner. Small ecclesiastical buildings of this kind were probably widely distributed in early Christian Ireland, providing testimony to the spread of Christianity in that remote region far from Rome.

7



The Byzantine Empire

In AD 293, the Emperor Diocletian decided, for military and administrative reasons, to shift the centre of the Roman Empire eastwards. From its origin as a new Rome, the Byzantine Empire became a vital trade and cultural link between Europe and Asia and a bastion within which Graeco-Roman civilization developed new and magnificent forms. Byzantium later found itself in doctrinal and political conflict with the Western popes and emperors but, as a Christian empire, it resisted Arab, Slav and Turkish invaders for more than 11 centuries.

The founding of Constantinople

Both Diocletian (245–313) and Constantine I (c. 285–337) sought a better base than Rome, closer to the troop-recruiting grounds of Anatolia and the Balkans. Constantine's choice fell upon a town on the Bosphorus which had been the site of an ancient Greek city, Byzantium. Constantinople, as the new capital was called, had a fine harbour and was almost unassailable. Key! The scale on which it was conceived surpassed anything in the ancient world. Constantine was deter-

mined to found an urban centre to which men throughout his empire could direct their loyalties. He believed a common religion could also provide a powerful cohesive force. He had been converted to Christianity in 312 and in 330 dedicated Constantinople to the Virgin Mary.

The close association of Church and state and the prestige and near impregnability of the capital gave the eastern sector of the Roman Empire remarkable unity after Theodosius (346–95) left the empire split into two. While the Western Empire was swept away in 476, the Eastern, or Byzantine, Empire was able to resist attacks on the Balkans by the Visigoths and Ostrogoths. In the fourth and fifth centuries an intellectual elite created the science of theology from Greek logic and the Christian revelation.

Although theology helped to strengthen the people's faith, it also led to religious discord. Many of the Byzantine Empire's later problems can be attributed to factional struggles in which theological differences hardened into political ones that could be exploited by invaders. The Christological con-

troversy, which came to a head in the fifth century, was concerned with the relationship between the human and divine aspects of Christ's nature. The followers of Nestorius, Patriarch of Constantinople, stressed the human side while the Monophysites, based at Alexandria, stressed the divine. An equally bitter controversy, which reached its height in the eighth century, was iconoclasm – opposition to the worship of images.

The Justinian era

The empire reached its apogee under Justinian the Great (c. 482–565), a brilliant administrator with wide-reaching military ambitions [6]. His general, Belisarius, reasserted Christian-Roman authority over large areas of the former Western Empire. Justinian greatly expanded the capital and built Hagia Sophia [8] which was intended to provide a centre of worship for all Christendom. Perhaps Justinian's greatest achievement was the codification of Roman law. His *Code Justinianus* remained in the Middle Ages the main legal source book in Europe.

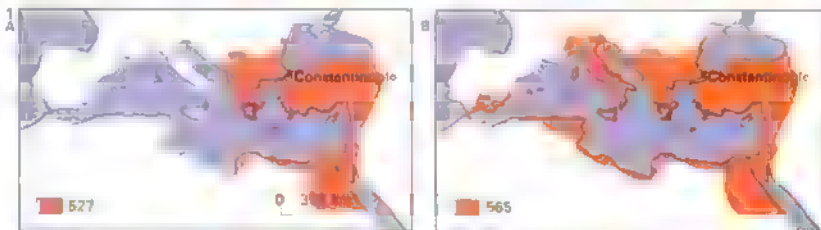
Byzantium nevertheless became increas-

CONNECTIONS

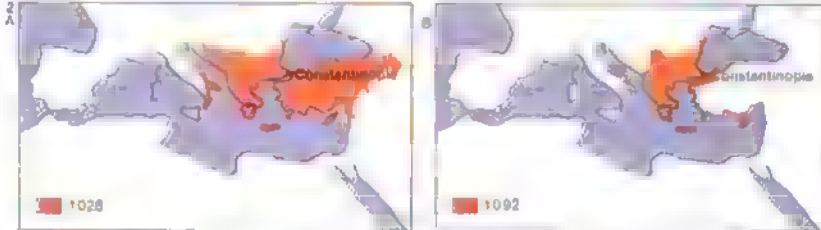
See also

Byzantine art
Constantinople
Empire of the East
Hagia Sophia
Iconoclasm
Justinian the Great
Monophysitism
Nestorianism
Orthodoxy
Patriarch of Constantinople
Theodora

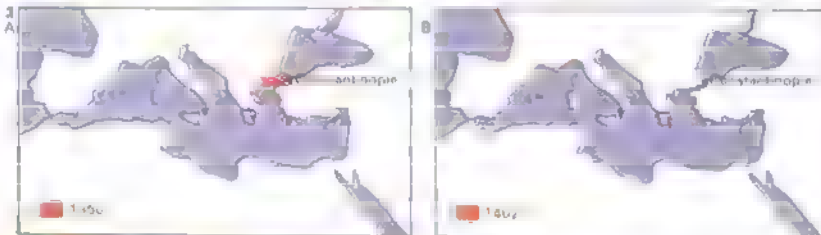
1 The Byzantine Empire under Justinian I grew from an exclusively Eastern power in 527 (A) to an empire controlling by 565 many former territories of imperial Rome (B). Germanic invaders were ousted from many areas of the Mediterranean.



2 The recovery of many areas which the empire had lost to the Slavs, Germans and Arabs in the 7th and 8th centuries was completed by the conquests of Basil II ('the Bulgar slayer'). (A) But Normans and Turks had made large inroads by 1092 (B).



3 Dismembered by Turkish attacks and by internal feuds, the empire had shrunk in 1350 to a corner of the Balkans and some land in Greece (A). By 1452 even the Balkan territory was lost (B) and Constantinople was soon to fall.

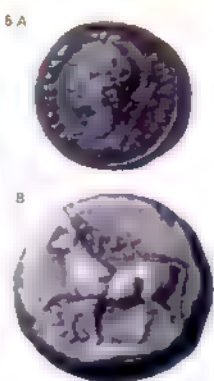


6 Justinian I ('reigned' 527–65) is the central figure in a glowing mosaic from the Church of S Vitale, Ravenna. Justinian made a determined effort to revive the old Roman Empire under Christianity. Byzantine churches, such as at Ravenna, were built after Justinian's general, Belisarius, overran Italy as far north as Milan in the years following 535. Justinian's military, cultural and administrative achievements earned him the title of 'The Great'. His consort, Theodora, daughter of an animal keeper, was influential in Byzantine court politics.

7 The dromon was a Byzantine development of the traditional Greek galley. Much Byzantine trade was carried by sea and the empire kept large and efficient mercantile and naval fleets. The dockyards along the Marmara coast were the finest found in Europe until the 12th century.



4 A patrician couple of the 6th century had a similar social status to the traditional Roman counterparts. As a middle class emerged, mobility between plebeian and patrician classes was higher than in Rome.



5 Byzantine coins reflected a change to a predominantly Greek culture after the 7th century. The Latin inscription on the gold soudus (A) gave way to one in the new official language of Greek (B).

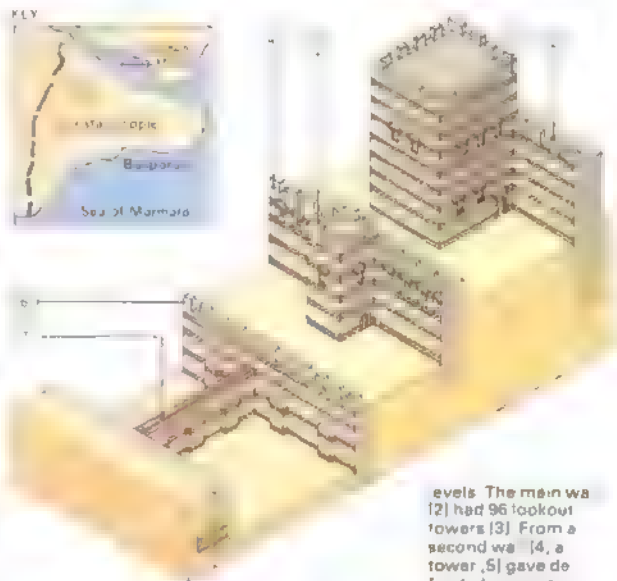
ingly Greek in character after the reign of Justinian and Greek replaced Latin as the official language [5]. The conquests in the west were short-lived and the ravages of plague weakened the empire's ability to resist Persian attacks in the east. Aided by dissident Monophysites, the Persians had occupied most of Egypt, Syria and Palestine by 615. A greater menace appeared in 637 when the Arabs, five years after the death of the prophet Mohammed, overran Syria and Palestine. Later they took North Africa, Sicily and the important grain lands of Egypt while their fleets secured Cyprus, Rhodes and several other islands.

Revival and decline (867-1453)

As its boundaries shrank, the empire regained its ethnic unity and acquired renewed strength. From 867, under a Macedonian dynasty, it took the initiative against the Muslims and by the time of the death of Basil II (958-1025) its borders reached from the Danube to Crete and from southern Italy to Syria [2]. During this last period of greatness, trade flourished [9] and

missionaries spread Christianity throughout the Balkans and into Russia.

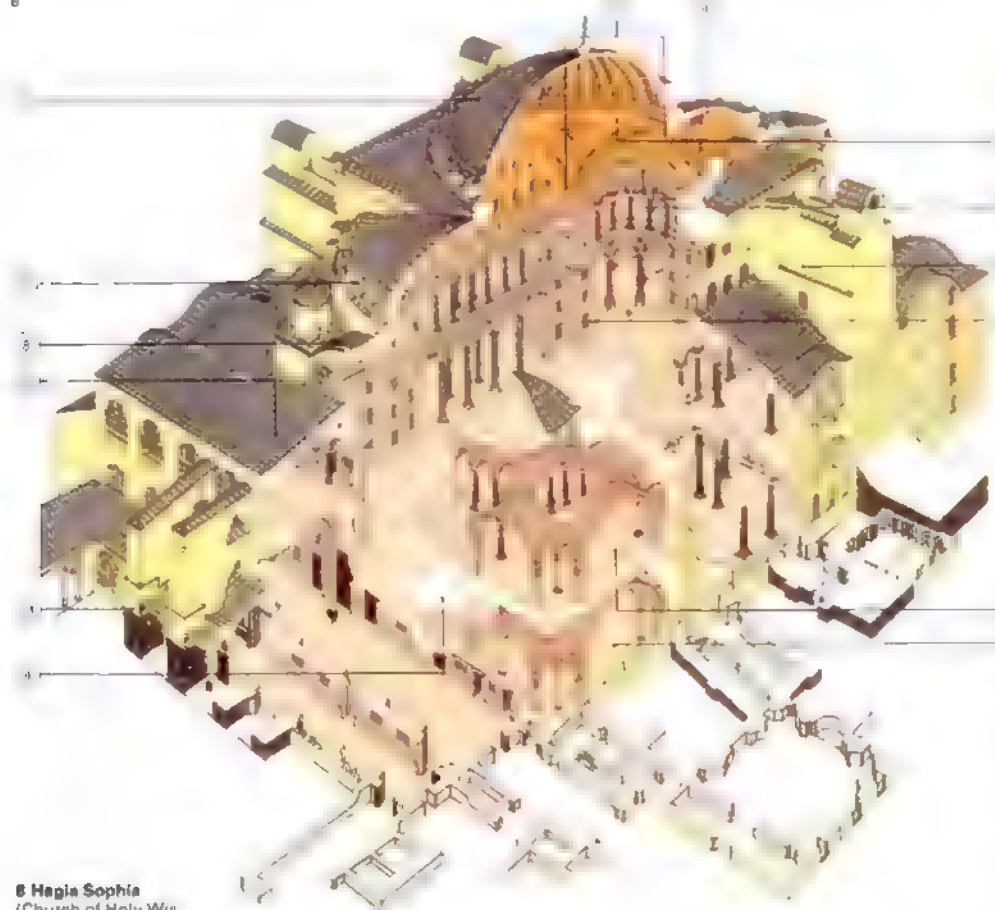
The Turks were soon to bring the empire to its knees, however. The defeat of Romanus IV by the Seljuks in 1071 and subsequent capture of Anatolia were the beginning of the end. From then until 1453 the empire was steadily eroded by intrigues, attacks and religious conflicts [3]. The Crusaders, whose help was enlisted against the Seljuks, fell out with the Byzantines and exploited a quarrel to take Constantinople in 1204 and set up a number of semi-independent Latin states. Religious schisms and trade rivalries prevented any concerted western effort against the Ottoman Turks who made Byzantium a vassal state in 1371. Although only Constantinople and a few outposts along the Sea of Marmara remained by 1453, it took the Sultan Mehmet II (1431-81) [10] nearly two months to capture the great city itself. With his final victory the old Byzantine world from the Balkans to Palestine was once again united, this time under the Ottoman state, which dominated the Mediterranean for the next 200 years.



Constantinople's walls built across

the peninsula [1], in the 5th century, were defensible at varying

levels. The main wall [2] had 96 lookout towers [3]. From a second wall [4], a tower [5] gave defended access to a moat wall [6]. Sluice gates [7] controlled water in the moat



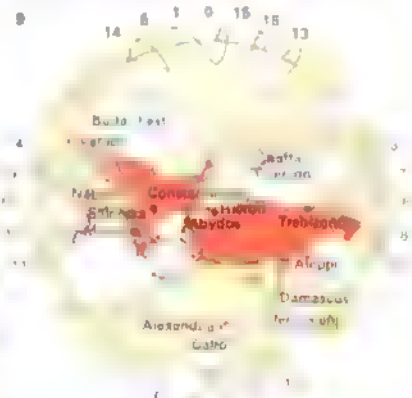
8 Hagia Sophia (Church of Holy Wisdom), built during the reign of Justinian I, was completed in only five years. Intended to provide a spiritual centre for the empire, it is the largest Christian church in the Eastern world and exceeded in splendour only by St Peter's in Rome. The most famous of many architects who worked on the project were Anthemius of Tralles and Isidorus of Miletus. The overall

design shows little classical influence, although Justinian despoiled classical buildings in Athens, Ephesus, Rome and Baalbek for marble. Technically, the most striking feature is the massive central dome [1] which measures 31m (100ft) across. Its thrust is borne by four arches [2], joined by pendentives [3]

which separate the semi-domes [4 and 5]. Lesser semi-domes [6] flank the main piers [7]. The thrust from [5] is taken at the west by an arch [8] supported on piers [9]. Vaulting [10] transfers the outward thrust to a series of flying buttresses [11]. Buttresses [12] support the dome's north and south thrust. By building domes on

arches [13 and 14], large areas could be spanned. The exterior brickwork is plastered. Brick domes and semi-domes are lead covered. Interior walls, piers and floors are clad in various marbles, and vaults and domes in rich mosaics. The church was used as a mosque after 1453 and has been a museum since 1933.

10 Sultan Mehmet II gave the Ottoman Empire a European outlook when he took Constantinople in 1453 and made it a centre of learning and religious tolerance. Although autocratic, he was a gifted administrator. Gentile Bellini, who painted this portrait, was one of several Italian artists he patronized.



- Byzantine Empire in 1045
- Trade flow
- Customs houses
- 1 Amber
- 2 Ivory
- 3 Gems
- 4 Monks
- 5 Gold
- 6 Textiles
- 7 Cotton
- 8 Silk
- 9 Timber
- 10 Spices
- 11 Salt
- 12 Weapons
- 13 Slaves
- 14 Wax
- 15 Lard
- 16 Dried fish

9 Major trade routes of the 11th century reached a natural junction at Constantinople and the city became a great east-west market. A duty of 10% was levied on imports reaching Hieron from the Black

Sea, Abydos from the Mediterranean, Trebizond from Asia, and Salonika from the Balkans. Byzantine craftsmen were famed for their working of gold, silver, amber, ivory and all kinds of precious stones.



Mohammed and Islam

Mohammed (Mahomet) was born in Mecca in west central Arabia in c. 570. He had an unhappy childhood: his father, mother and grandfather died before he was eight and left him in the care of an uncle. At the age of 25 he married a wealthy widow, Khadija, who bore him six children, and for 24 years they lived happily together. Only after her death in 619 did Mohammed take other wives, to strengthen ties with important families and to seek – unsuccessfully – a male heir.

The visions of Mohammed

When he was 40 years old Mohammed, who loved solitude, was in a cave on Mount Hira outside Mecca when he had visions of the angel Gabriel calling him to "recite" in the name of God the creator. He received revelations that were to become the first parts of the Koran ("recitation"). Mohammed conveyed these teachings to a group of friends who believed with him in the unity of God.

At first the little group, which met for prayers to God (Allah), was ignored or scorned, but as their numbers grew they were persecuted. Some took refuge for a time in

Christian Ethiopia. They were called Muslims (Moslems) – "surrendered men" – in the religion of Islam they had "surrendered" or submitted to the one God. Early converts were made from Yathrib, a town 200km (120 miles) north of Mecca, and Mohammed was invited to go there. In 622 the *hegira* (migration) took place and Mohammed and his followers moved from Mecca to Yathrib, henceforth called Medina the "city" of the prophet. The Muslim year is dated from the *hegira*.

At Medina, Mohammed built a mosque and a house, and sent his followers on raids to provide funds and ensure protection against armies from Mecca. There were battles at Badr and Uhud and finally Mohammed's armies and influence grew so that in 630 he was able to capture the city of Mecca almost without loss [1]. He rode around the Kaaba shrine [4] and had its idols destroyed.

After the death of the prophet

The death of the prophet in 632 was sudden, but after some hesitation his friend, the elderly Abu Bakr (573–634), was appointed as caliph – successor to the prophet and vice-

regent of God. Arabian tribes that had been bound to Mohammed by oath began to break away but Abu Bakr sent armies to establish Muslim rule. They were so successful that his forces broke out of Arabia into the rest of southwestern Asia. Abu Bakr died two years after his appointment, but under his successors, the caliphs Omar and Othman, Arab armies rapidly conquered Mesopotamia and entered Persia, while others entered Syria. Jerusalem surrendered to them and Omar visited the Christian churches there and the site of the ancient Jewish temple where later a great shrine was built, incorrectly called the Mosque of Omar but more properly the Dome of the Rock, one of the most holy places of Islam. Arab armies went to Egypt, where Alexandria surrendered, then after some delay they travelled along North Africa and in 711 crossed into Spain at Gibraltar. They even penetrated into the heart of France, where between Tours and Poitiers the Muslim armies met Frankish forces under Charles Martel in 732. After seven days of fierce skirmishes the Arabs were forced to retreat southwards.

CONNECTIONS

See also

1 This painting is from a copy of *Siyar-i-Nabi* (Life of the Prophet) and shows Mohammed and Abu Bakr on their way to Mecca from Medina. The prophet is traditionally depicted faceless with a flaming halo. The

paintings of Islamic art are unique in that the historical events depicted take a secondary place to the intensity of the religious feeling. This work is in the 16th-century Ottoman court style yet it has an almost contemporary realism.

2 The Prophet Mohammed was a "warner", calling men to turn from idols to worship the one true God, Allah! There are no contemporary pictures of the prophet but later artists have pictured him as an Eastern holy man.



3 The Koran is the sacred book of Islam. All Muslims know some of its

verses by heart and use them in daily prayers. Illuminated copies of the

Koran in gold and bright colours were written by hand by skilled scribes.



They remained in southern France for some years but Spain was the limit of their rule and here they remained for centuries until the fall of Granada in 1492, after which Muslims and Jews were expelled from Spain. In the east, Persia came completely under Muslim rule as well as a large part of India. The Muslims preserved much of the cultures they encountered and transmitted them, taking Indian numerals as Arabic numerals to Europe and preserving Greek medicine, astronomy and philosophy during the period of the Dark Ages in Europe.

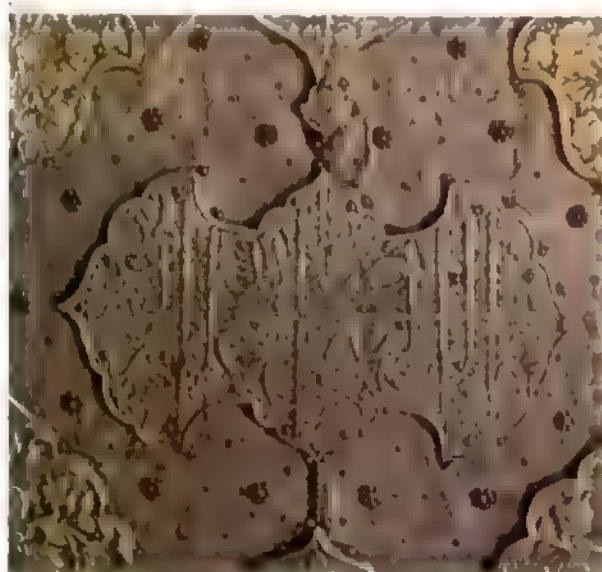
The importance of the Koran

Mohammed, who is said to have been illiterate, passed the Koran, the divine Word, to his followers and it was written down by scribes at his recitation or from memory [3]. The final official version was completed under Orhman, about 20 years after the death of Mohammed. The Koran is in Arabic, in 112 *suras* (chapters) the first of which is always recited in daily prayers. Most of the early chapters are long and deal with religious and social matters, while the later

ones are short and challenging in content.

The Koran teaches faith in God, the coming judgement against unbelief, and the ideas of heaven and hell, it also sets out duties appropriate to marriage, the family and social life. Many stories in it are parallel to some in the Old and New Testaments and Adam, Abraham, Moses and Jesus appear as prophets. The religious duties of Islam are taught in Five Pillars: confession of faith in one God and Mohammed as his apostle, prayer five times a day [5, 7], alms-giving of a proportion of one's income, fasting from all food and drink during the hours of day throughout the whole of Ramadan (the tenth month of the year) and pilgrimage to Mecca at least once in a lifetime.

All men and women are bound to perform these religious and social duties, with exemptions for the young, sick and old. Islam is an international religion, with perhaps 500 million followers, mostly in Asia and Africa. The Arabic language prevails in the southern Mediterranean and many Near Eastern countries, and is used by all Muslims to recite the Koran and in formal prayers.



'Praise be to Allah' the first words

of the Koran is a favourite text

inscribed on the walls of mosques

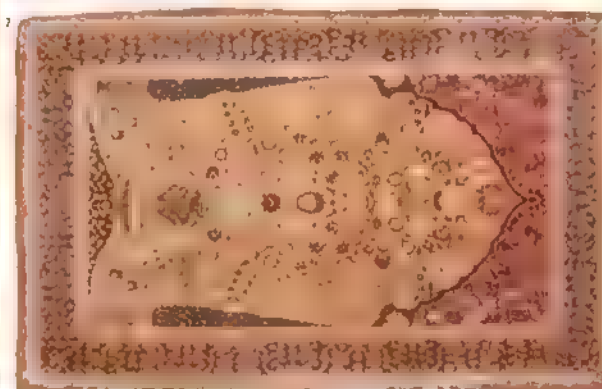


4 In the centre of Mecca stands the Kaaba (cube) a stone building covered with a black cloth towards which Muslims turn in prayer and round which they go at times of pilgrimage

5 Five times every day Muslims are called to prayer from a mosque or minaret tower. The *muazzin* calls that God is most great there is no god but God. Mohammed is the Apostle of God come to prayers, come to salvation.

6 The Royal Mosque Masjid-i-Shah in Isfahan, Iran was built in the 17th century for Shah Abbas the Great. It is composed of porches, halls, domes and minarets covered with blue tiles and mosaics. Long friezes of elegant uttering proclaim the glory of God.

7 Prayer rugs, such as this 18th century Persian rug are famous products of Muslim craftsmen. Large ones cover the floors of mosques.



Byzantine art

The small proportion of Byzantine art to survive is mostly "official" art – the aesthetic visualization of Christian beliefs, or of imperial authority, or a combination of both as the Christian Roman state. Such art was the dominant production of this society, and secular art was almost non-existent. Byzantine art, therefore, begins with the foundation of Constantinople in 330, and ends with its fall to the Turks in 1453.

"Official" art

The new capital on the site of Byzantium brought Roman art back into the geographical setting where many of its traditions, forms and media had originated. Yet Byzantine art was no mere continuation of Graeco-Roman art in the service of the Orthodox Church. When fourth-century Constantinople emulated Old Rome by erecting two cochleate (spiral) columns, their sculptured reliefs (known from drawings) were developed far beyond Trajan's classical forms; they abound not merely with Christian symbols, but convey imperial triumph with an endless procession of stiff

figures. The style reflects the hierarchy of the state. This new art developed in the rich cities of the eastern Mediterranean, for example in the cupola mosaics of St George in Thessalonika (450), where a superficially Hellenistic style portrays the place of Christian martyrs in the heavens.

The first great achievements of Byzantine art belong to the reign of Justinian (527–65), whose patronage ranged from St Sophia in the capital [2] to the remote mosaics of Mt Sinai [1]. The Dark Ages after Justinian, when Byzantium was under constant threat of invasion, saw a rise in the production of icons or, rather, in the superstitious cult of images or saints as the mediators for personal salvation. The Iconoclast emperors from 726 until 843 tried to impose a non-figurative religious art, comparable to medieval Muslim and Jewish societies, but the Byzantium managed to survive the Dark Ages and so did Christian figurative art.

After Iconoclasm, the Macedonian emperors (867–1065) celebrated the Triumph of Orthodoxy with the redecoration of churches, starting with the apse of St

Sophia. Progress in Byzantium customarily meant regress to past ages, and this period recreated the style of Justinian.

New patrons

More survives from the Comnenian dynasty (1081–1185) than the Macedonian. Under the Comnenes, the wealth of Byzantium significantly shifted from the emperors and bishoprics into the hands of aristocratic landowners and monasteries.

Taste for gold and saturated colours stimulated an unrivalled mosaic expertise. Cubes of glass (coloured or fused with gold or silver leaf), marble, even precious stones were pressed one by one into lime plaster beds on church vaults and each could be tilted to reflect the light. Vast mosaic figures in an ethereal golden glow surrounded the Byzantine worshippers. Fresco was a cheaper, but less permanent substitute.

The twelfth century was a period of refinement and sophistication of earlier forms, accompanied by a growing self-consciousness. Artists began to sign their works in this century. Two major mosaic

CONNECTIONS

See also

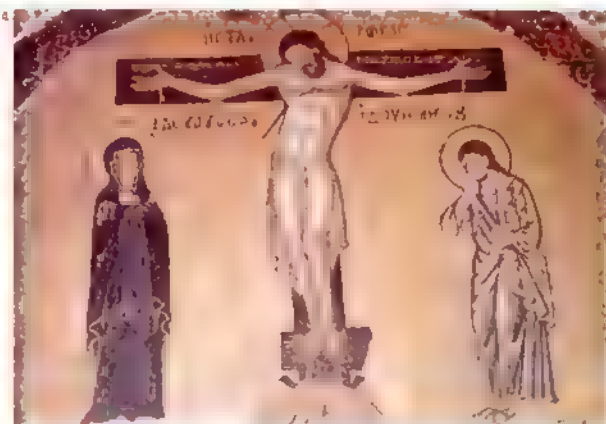
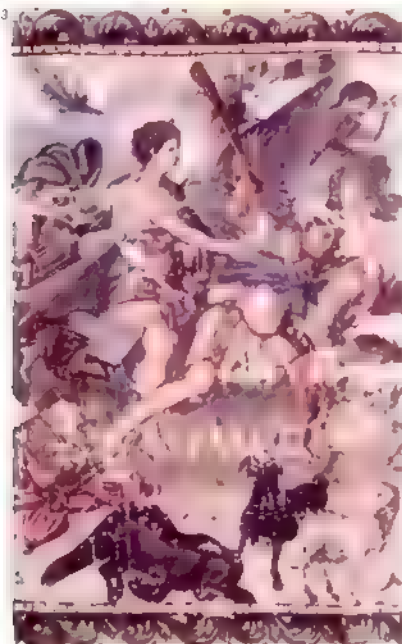
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1 This mosaic meditation of St John the Baptist is from the basilica founded around 550 by Justinian on the Burning Bush site on Sinai (now St Catherine's Monastery). Its great expressiveness suggests that the decorators were from Constantinople and were able to transform a classical tragic mask into mosaic.



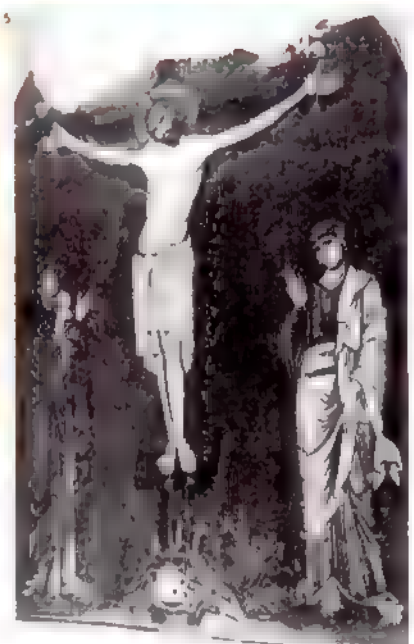
2 The mosaic of the "Enthroned Madonna and Child" in the apse of St Sophia, Istanbul, was probably unveiled by Patriarch Photius in March 867. The Patriarch claimed in a celebrated sermon that the mosaic seemed so lifelike that Mary was not incapable of speaking.



3 David fighting a lion is one of seven author portraits opening the Paris Psalter. The atmospheric setting and female personification assisting David are devices of classical art, suggesting that the artist was an antiquarian.

4 This "Crucifixion" is in the monastery of St Luke of Stira, Greece. Luke's relics attracted pilgrims, and so financed the 11th-century church. The saints here express monastic piety and the scenes have a direct style.

5 The mosaics of the "Crucifixion" in the Monastery of Daphni near Athens (c. 1100) suffered extensive restoration in the 1890s. The style is more narrative than at St Luke's Monastery and is also more emotional.



Decorations in Greece illuminate the middle centuries of Byzantium. The "Crucifixion" in the Monastery of St Luke [4], of the Macedonian period, delineates Christ's death as a stark episode in Church history followed by the "Resurrection." The Comnenian "Crucifixion" at Daphni [5] still forms one unit in a dogmatic cycle, but the artist emphasizes the human aspects.

Individuality within conformity

Since Comnenian artists normally decorated a standard architecture (the cross in a square cupola church) with a standard repertory (life of Christ and Mary), this may paradoxically have stimulated individuality within conformity. In Monreale the mosaicists brought to Sicily had to adapt their repertory to a different structure and larger scale [6]. The challenge was to their technical expertise rather than to their inventiveness with subject-matter.

The Latin occupation of Constantinople (1204-61) did permanent damage to the Byzantine economy, and Palaeologan art (1261-1453) is on a reduced scale. The last

great mosaic decoration was that of the Kariye Cami, where another aristocrat provided himself with a mortuary chapel [7, 8]. Icon production increased in this period, especially for church sanctuary screens. Palaeologan artists absorbed earlier styles and made further developments. Late Byzantine art influenced Western European art, although it is harder to see what it derived from Western contacts. Whereas pictorial perspective was being developed in Italy, Byzantine compositions used architecture to punctuate the action rather than to unify the picture space. Did Byzantium stimulate, reject, or fail to understand the Western developments? Late Byzantine compositions are increasingly complicated; clarity of expression was seldom valued.

After the middle of the fourteenth century there was little money left for art in Constantinople, and many artists left to find work in other Orthodox societies such as Russia. Although the consequence was to disseminate the Byzantine tradition, the destruction of imperial Constantinople in 1453 terminated creative Byzantine art.

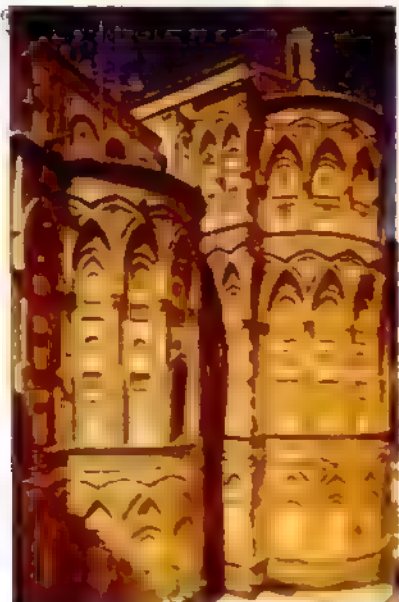
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The frontispiece of a luxurious psalter painted in Constantinople between 1018 and 1025 commemorates the victory of Basil II over the Bulgarians. The tri-

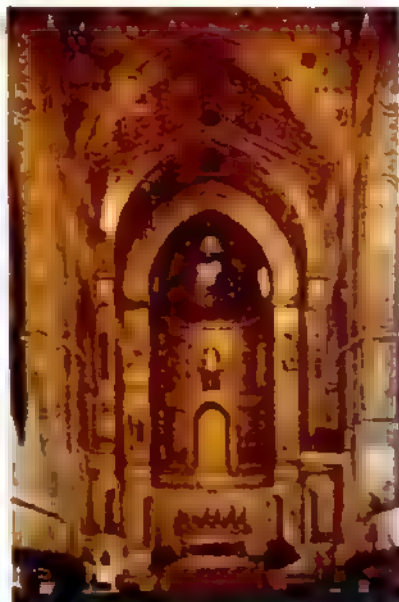
umphant emperor, crowned by Christ, armed by archangels and assisted by military saints, tramples his conquered enemies underfoot. The picture both declares

the power of the Byzantines and expresses their conception of sovereignty with their emperor as representative of Jesus Christ on earth.



6 The Chora (Kariye Cami) was decorated by its 14th century refounder Theodore Metochites with mosaics, except in the south chapel, which held his tomb in a frescoed setting. The apse contained

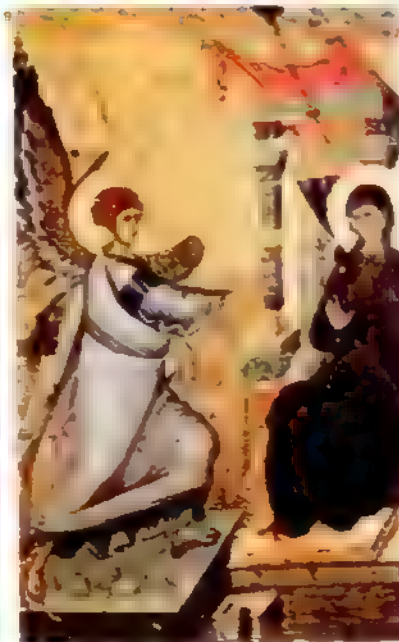
the "Anastasis" (shown here), Christ at Easter rescuing Adam and Eve from Hell. Metochites justified his greed by his use of wealth, and this decoration alleviated his guilt by promising life after death.



6 Monreale Cathedral [A] was founded by William II (r. 1168-89) as a monastic cathedral to rival the archbishopric of Palermo. It is a Latin basilica, with a Greek cross-in-square sanctuary.

The polychrome intricate east façade dominates the hill seen from Palermo. Christ Pantocrator is the focus of the vast mosaic interior [8]. The dramatic style was the current fashion in Constantinople.

7 The Kariye Cami, Istanbul, with minaret belonging to its Turkish conversion into a mosque is now a museum. This was the 11th century Chora Monastery which was refounded in 1315-21.



8 The "Annunciation" is one side of a double-sided icon in the National Museum, Ohrid, Yugoslavia. The icon also portrays the Virgin Saviour of Souls. A furnishing of the Parableptos Church (now St Clement's), the icon was perhaps sent from Constantinople and was probably painted around 1300.

10 In this 14th-century miniature mosaic icon of the Annunciation the minute glass cubes are set in beeswax. Such portable mosaics became fashionable among the few rich families of Palaeologan Constantinople and were collected by Renaissance popes. This was virtually the only form of Byzantine art appreciated in the West.



Arabs and the rise of Islam

Arab expansion was a tribal conquest of civilization. Such conquests are common place in history, but the Arabs are the only people who started a new civilization as a result of their conquest. This came about by a combination of two special circumstances. First, on the side of the conquerors there was a unique fusion of religious conviction [2] and tribal military force. The Arabs conquered the Middle East [4] in the name of a monotheism that sanctified their tribal heritage over and against the conquered civilizations and their conquests were so successful that they had no need to come to terms with those civilizations anyway. Thus the Arabs could avoid being culturally absorbed by the peoples they had conquered.

Second, on the side of the conquered peoples there prevailed in Egypt, Syria and Iraq a unique type of provincial culture. Having lost their own civilizations some 1,400 years before when they first came under the rule of alien empires, these provinces had not yet been fully assimilated by Byzantium and Iran. As a result they were less committed to these civilizations and the

Arabs were exposed only to a culture filtered through a provincial milieu and language. These provincial cultures, pale versions of their imperial civilizations, could thus be reshaped by the Arabs.

The strength of the Arab position as against the weakness of provincial culture is the keynote of early Islamic history politically, culturally and ethnically.

The political influence

Politically, the strength of the Arab position determined the evolution of the Arab conquest society. With the Umayyad dynasty [4] (661-750) the capital was moved from Medina to Syria where a tribal confederacy formed the basis of the caliph's power, in the provinces the tribal armies were placed under tribal leaders in a system of indirect rule. Within some 40 years kinship ties had been eroded and the tribal armies gave way to professional soldiers and civilians.

Normally, the loss of the tribal organization means that the conquerors must borrow the political organization of their subjects or suffer political disintegration either way the

conquered civilizations eventually win. But among the Arabs the sanctity of the tribal past meant that neither of these eventualities came to pass and the obsolete organization was retained until the third civil war (744) which was followed by the Abbasid revolution. It was thus that the Abbasids (750-1258) [3] had to govern an Islamic empire as opposed to an Arab conquest society without losing the link with the tribal past, a problem that eventually proved insoluble. Although the Arabs attempted in various ways to foster an imperial ideal and aristocracy within Islam on the Iranian model, the fourth civil war (811-13) meant the failure of such attempts, the adoption of slave armies [5] as the instrument of government and, soon afterwards, the dissolution of the unitary state. The delay, however, meant that meanwhile Islamic civilization had developed sufficiently to survive.

Islamic culture and learning

Culturally, Arab strength accounts for the character of Islamic learning. The core of Islam is a revealed law, actually erected in

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1 Mohammed designated Ali as his immediate successor according to the doctrine of the Shiites and by the evidence of this miniature. But

members of the Sunni sect accept Ali only as the fourth caliph

2 The Dome of the Rock is a striking example of the cultural nerve that Arab conquerors had to muster in order to elaborate a new monotheism in the face of Judaism and Christianity. Built by Abd al Malik 685-705 on the Jewish temple site in Jerusalem and filled with polemical inscriptions, it certainly advances an Islamic claim to supersede Judaism and Christianity as opposed to merely co-existing with them in the form of yet another revelation. But this claim was too demanding to be consistently maintained.

ces an Islamic claim to supersede Judaism and Christianity as opposed to merely co-existing with them in the form of yet another revelation. But this claim was too demanding to be consistently maintained.

The dome is a good example of the reshaping of old cultural material to create a new civilization largely Byzantine in derivation, the result is distinctly Islamic. The building is a shrine but the Islamic significance of the rock it encloses is not clear. Most believers now associate it with Mohammed's heavenly journey.



3 The Great Mosque at Samarra in central Iraq dates from the

ninth century when Mutasim (r. 833-42) in 836 made the town the capital of the Abbasid Empire. In 892 the caliph returned to Baghdad.



Iraq in the eighth and ninth centuries from a variety of foreign materials but in theory exclusively on the Koran and the Prophet's works. It was the learned busy studying Islamic law who came to be seen as the heirs to Mohammed's preaching.

It follows that it was not difficult to create an Islamic scholarship overwhelmingly Arab in orientation but it was not so easy to create an Islamic philosophy and science. The Arabs did inherit Greek philosophy from the conquered provinces but being neither Arab nor Islamic, such teaching was regarded as angelic wisdom. Although philosophy continued to be cultivated, it was gradually relegated to marginal and heretical circles.

Ethnic development

Ethnically the weakness of provincial culture explains the overwhelming Arab influence on the Middle East. Islam began as a religion for Arabs but could not remain so when the non-Arabs began to convert to it. From being an ethnic faith on the Judaic model it had to become a universal belief on the Christian model but the transition was

never quite completed. Mohammed was an Arab who, unlike Jesus, had never ceased to be honoured in his own community and in his name the Arabs had conquered a kingdom that was very much of this world [Key]. The notion that a Muslim was in some sense an Arab and Islamic civilization in some sense Arabian, therefore proved extremely tenacious. In the ninth and tenth centuries non-Arab converts, especially Iranians, attempted to disentangle Islam from its Arab origins, insisting that Islam was a faith that could be combined with any identity and culture but the success of these so-called *shu'ubis* was limited. The three provinces Egypt, Syria and Iraq – all became Arab countries, while Iran, not a province but an empire, retained its Iranian identity but largely lost its Iranian civilization. Only where Islam has spread peacefully as in parts of black Africa and Java, has it proved flexible enough to combine with a local culture. In the Middle East the ancient intransigence of Islam vis-à-vis such cultures has a modern sequel in the preference for Arabs as opposed to Egyptian, Syrian or Iraqi nationalism.



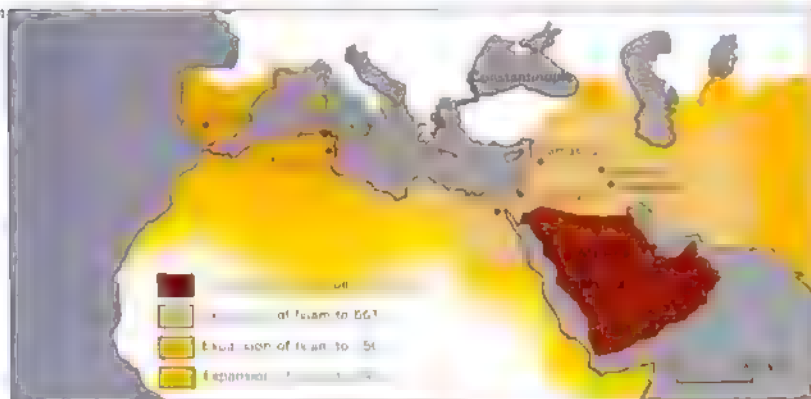
Camel-breeding
Bedouin tribesmen named over most of Arabia before the days of oil. South Arabia had sufficient rainfall to sustain a stable of structures, while the north external resources were available in the form of commercial revenues or imperial subsidies. But most of the peninsula was too poor to support a non-tribal organization. Here Mohammed was the first to not the name of a religious doctrine. By uniting the tribesmen as believers and calling on them to wage war against the unbelievers, he provided a rationale for a conquest of the fertile lands that culminated in the formation of a vast empire.

4 The unification of Arabia is traditionally credited to Mohammed and was accomplished before his death in 632. Egypt and Syria were taken from the Byzantines and Iraq and the Iranian plateau from the Sassanids between 632 and 656.

when civil war broke out. The first Umayyad caliph Mu'awiyah (r. 661–80) resumed Arab expansion in North Africa and eastern Iran, while a second thrust under Walid I (r. 705–15)

pushed the Arabs into Spain and India, but a last attempt to conquer Constantinople in 715–16 failed. At the end of the Umayyad period (750), the limits of Arab expansion were the Pyrenees to the Sahara, the Cau-

casus and Turkestan. Further expansion, whether Arab or Islamic, became the work of local dynasties, militant fraternal orders and missionaries and merchants, and such expansion continued far beyond 950.



6 A hoard of Arab coins from a tenth-century Viking grave in Sweden represents payment for the slaves, fur and honey that were exported to the Muslims by the Vikings who colonized Russia.



7 Harun al-Rashid is one of the few caliphs to have fired Western imagination thanks to *The Arabian Nights*. His reign (786–809) fell in the period following the transfer of the capital to Syria to the culturally richer Iraq but politically his days were troubled. Faced with revolts and general discontent, he divided his lands between his sons, thus provoking a fourth civil war which disastrously for royal power was won not by the caliphate but by a provincial army.



8 Kairwan, in Tunisia, was founded as a garrison city for the settlement of Arabs so did not soon become a centre of learning and orthodoxy in North Africa, which was at that time inhabited overwhelmingly by Berbers. On conversion, the Berbers repeatedly made use of the programme of tribal state formation and conquest envisioned in the Prophet's career in the name of a doctrine that was sometimes reformist, sometimes heretical. Although North Africa is intensively Arabized today, it still has a substantial Berber population. But Arab or Berber Islam among North African tribesmen is highly distinctive, centring on holy men often identified as descendants of the Prophet.



9 A mounted archer (detail from a Palmyra fresco) typifies the kind of Turkish slave soldier from Transoxania who swelled the ranks of the Islamic armies. Transoxania, which was once the eastern

frontier of Iran, is now wholly Turkish. Divided into warring principalities, it was a difficult place for the Arabs to conquer. As a result, Iranian culture survived and it was in this marginal province

that the revival of Iranian literature and Islam took place from the tenth century onwards. Transoxania was exposed to Turkish tribes and after several invasions was overrun eventually to become Turkish.



Islamic art

Architecture and its decoration best illustrates what is known as Islamic art. But the glamour of the great religious buildings has also tended to obscure the importance of Islamic secular art, which expressed itself most readily in painting, pottery, metalwork and textiles – hitherto the “minor arts”, under Islam they achieved major status.

The extent of Islamic art

Geographically Islamic art extends from Spain in the west to Indonesia in the east. It flourished from the seventh to the seventeenth centuries and thereafter gradually declined. Despite this wide range in space and time it has an instantly recognizable *cachet*. This is most apparent in Islamic decoration, which displays unequalled resource and virtuosity. The ban on the representation of living figures in a religious context – a ban that did not apply in secular art – directed the imaginative energy of the artist towards geometric, floral and epigraphic ornament such as the ubiquitous and aptly named arabesque (winding stems and leaves) and numerous varieties of Arabic

script. In religious buildings Koranic inscriptions predominated and calligraphy was given special reverence [Key].

In architecture the characteristic Islamic building is the mosque [1]. In its primitive form it derived from Mohammed's house in Medina, which had an open enclosed courtyard with a roofed area facing Mecca. Many mosques had a minaret – a tall tower for the call to prayer. Other characteristic Islamic buildings include the caravanserai for accommodating travellers, the *madrasa* or theological college and the *ribat*, a kind of fortified monastery. Palaces and tombs [5] abound. These various building types differ considerably from one country to the next, but they all have a number of domes, lengthy arcades with pointed or horseshoe arches; complex vaulting, open courtyards as an integral part of the design, and large expanses of flat wall surfaces decorated with carved stucco, polychrome tilework or inlaid marble.

Early Islamic art was produced mainly in Syria under the Umayyad dynasty (661–750). Umayyad religious buildings clothed Byzantine forms in glittering

mosaics, while palaces used chiefly Persian motifs within a basically Roman structure. Such eclecticism remained one of the constant features of Islamic art.

Stylistic variations in Islamic art

By the ninth century a classical Islamic art had returned under the Abbasid caliphate in Iraq and spread widely throughout Islam [7]. Its prime feature was carved or moulded stucco using geometric and rigorously stylized vegetal motifs, endlessly repeated.

As the power of the Abbasid caliphs waned, new political groupings generated five distinctive regional styles: Hispano-Moorish, Syro-Egyptian, Turkish, Persian and Indo-Muslim. In Spain the establishment of an anti-Abbasid Umayyad caliphate gave Syrian art a new lease of life, inspiring a distinctive style that spread through north-west Africa and was marked by an extreme, mannered delicacy of ornament applied to basically simple structures [8].

The Syro-Egyptian tradition produced a notable variety of religious buildings with carved stone exteriors and rather cramped

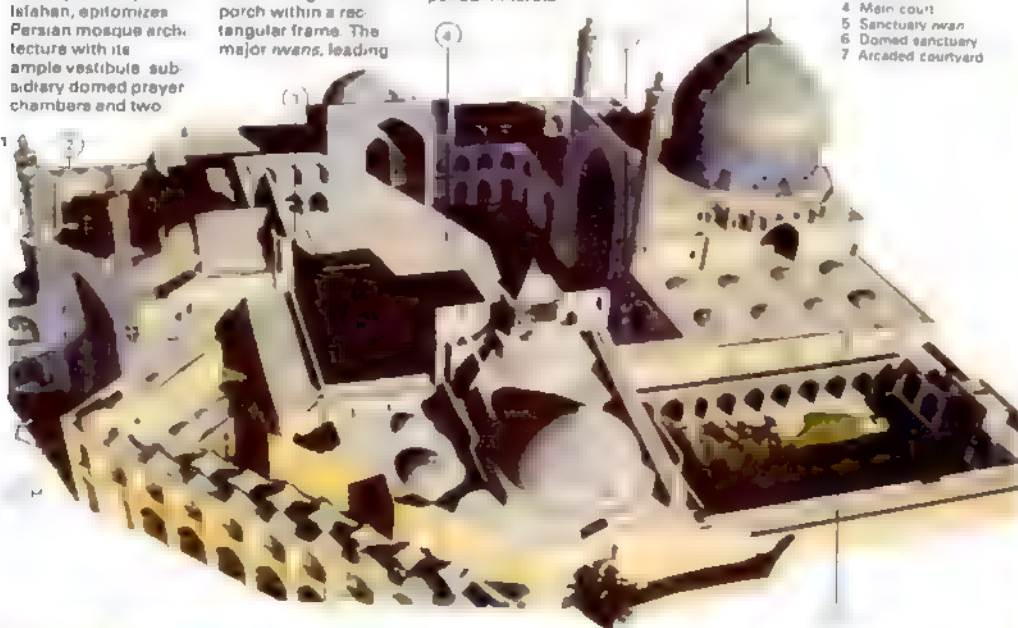
CONNECTIONS



1 Glittering with polychrome tilework, the Royal Mosque, Isfahan, epitomizes Persian mosque architecture with its ample vestibule, subsidiary domed prayer chambers and two

madrasas. Its principal feature is the *iwān*, a huge vaulted porch within a rectangular frame. The major *iwāns*, leading

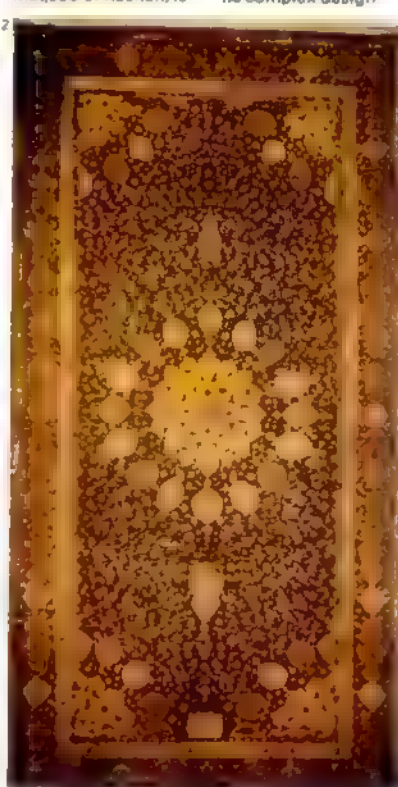
into the mosque and sanctuary, display paired minarets.



- 1 Entrance
- 2 Minaret
- 3 North *iwān*
- 4 Main court
- 5 Sanctuary *iwān*
- 6 Domed sanctuary
- 7 Arcaded courtyard

2 The Ardabil Carpet (1539–40), signed by Maqsum of Kashan, is

61.86m² (637 sq ft), giving ample room for its complex design.



3 Painted in Iran in 1296, this bestiary page reflects the rule of the Mongols. Through their pan-Asiatic empire, numerous Chinese motifs were introduced into Persian painting. In this case the phoenix and the conventions used for feathers, plants and border.

4 This ceramic bowl with lustre-painted decoration (c. 1300) depicts a Coptic priest swinging a censur. The design was scratched with a stick and is essentially a pattern of rhythmical repeating curves. The double-fired technique and decoration reflects Mesopotamian influence.



interiors. Turkish architects, at first greatly influenced by the neighbouring Arab and Persian styles, later responded to the challenge of Hagia Sophia in Constantinople, the greatest of Byzantine churches, by perfecting the Ottoman type of mosque. This has a great central dome, visually (but not structurally) shored up by tiers of half-domes, and slender pencil-shaped minarets at the corners.

Pottery, metalwork and painting

Among the minor arts, which occasionally borrowed from China and also from Europe, Islamic pottery displayed technical virtuosity of a high order, especially in lustre ware. The accent was always on colour and decoration (which could be figural, epigraphic, geometric or vegetal) rather than on shape or body [4]. The major centres of these arts were successively Mesopotamia, Egypt, Persia and Turkey.

Islamic metalwork, mainly in bronze, was technically extremely diverse, used a variety of shapes and favoured scenes of courtly life. Its heyday was in Persia and the Arab Near East

from the twelfth to the fourteenth centuries [9]. Metalwork was usually cast or engraved and niello, a black metallic composition, was used to fill engraved lines.

Islamic textiles fall naturally into two groups. Silks were used mainly for ceremonial and funerary purposes, most date from the ninth to the twelfth centuries and bear heraldic beasts and inscriptions. For carpets [2] the golden age flowered in sixteenth- and seventeenth-century Persia. Hunting scenes and floral motifs of a complex symbolism are commonplace.

Islam has never had a tradition of easel painting, and frescoes and mosaics are also rare, but book painting has always been popular [6]. Arab painting delights in animal fables, scientific treatises and genre scenes of an unexpectedly humorous quality. The mature Persian tradition [3], which influenced both India and Turkey, favoured scenes from narrative poetry. Indian painting modified this by a more naturalistic approach (a rarity in Islamic art): as its portraits and crowd scenes show, while Turkish artists stressed historical subjects

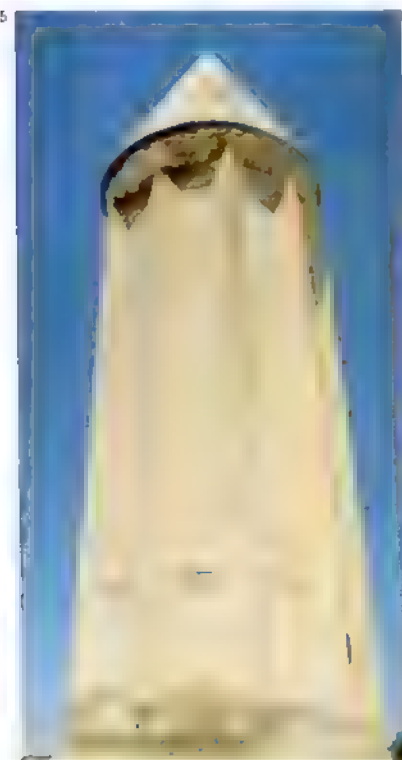
KEY



These drawings of angular inscriptions dating between 790 and 1543 are part of the rich repertory

available to the Islamic designer. Often several scripts were used in a monument for added contrast.

Extraneous ornament makes some virtually illegible, thus emphasizing their decorative function.



5 At Gunbad-i Qabus this tomb of a minor prince, whose sarcophagus was apparently suspended from the roof, is the first and greatest of a series of tomb towers built for rulers or saints and found

throughout northern Iran and Anatolia from the 11th to the 15th centuries. Their form probably originated in Central Asia and was later modified by the influence of nomad tents and Caucasian churches.



6 This late 15th century portrait of a painter in Turkish costume was painted by Kamal Al Din Bihzad (c. 1460- c. 1533). His use of colour and compositional sense profoundly influenced Islamic artists.

7 The Mosque of Ibn Tulun, Cairo (876-91) with its huge scale, enclosed and empty precinct, spiral minaret brick piers and abstract stucco ornament, carried into Egypt the style

of Abbasid Iraq. The arched court yard with a deep sanctuary is a constant of early Arab mosques. The mosque's uncluttered spaces are in deliberate contrast to the busy city outside.

8 The frequent extensions to the interior of the Great Mosque of Córdoba, Spain (begun 785-81) finally resulted in a sanctuary disproportionately deep in relation to the court yard. Endless diminishing vistas of horseshoe arches open on every side. A pitched roof covered each arched bay and to gain the requisite height the architect either placed columns one above the other or built special piers over them. This was a classical device.



9 Inlaid with gold and silver, this bronze basin, the 'Baptême de Saint Louis' (Egypt or Syria, c. 1300), celebrates the technical virtuosity and iconographical resources of early Mameluke

metalworkers. Externally narrow animal friezes frame a broad central band with monumental scenes of courtly life. Insignia of rank and heraldic emblems identify the main nobles.

Charlemagne and the Carolingian Empire

The Carolingians, a dynasty named after Charles Martel ("the Hammer") and his grandson Charlemagne, became the leading aristocratic family among the Franks in the seventh century. The family's power and prestige were greatly increased during the rule of Charles Martel (c. 688–741) who united the Frankish kingdom, halted the advance of the Arabs at the Battle of Poitiers in 732 [1] and began a political relationship with the Papacy that led to the foundation of the Holy Roman Empire. Charles Martel's son Pepin (c. 715–68), the father of Charlemagne, ruled from 747 and was anointed king with papal approval in 754. In 753 Pope Stephen sought the aid of the Franks against the Lombards who, having taken Italy, were threatening Rome. The king of the Franks became a regular ally of the pope, and the Carolingian house was invited to divide Italy with the Papacy.

The Frankish dynasty

The Franks traditionally considered their kings as being of divine origin and saw the tribe as the possession of its royal family. The

Frankish state as such only existed under strong kings such as Clovis (465–511) and Pepin who eliminated their rivals. On Pepin's death his sons Charlemagne (742–814) and Carloman succeeded. When Carloman died in 771 Charlemagne seized full control [Key]. In 773 he answered the Papacy's call and defeated the Lombards. From 774 he ruled Italy by conquest and swore an oath of assistance with the pope.

The reign of Charlemagne

The Papacy was now as frightened of the Franks as it had been of the Lombards and sought a way of restraining Charlemagne. The solution came in 800 when Leo III crowned Charlemagne [4], initiating the Holy Roman Empire and giving rise to the claim that the emperor held his power from God bestowed upon him by the pope.

Charlemagne was a warrior king. Wars were fought against the Lombards in Italy and against the Agilolfing dukes of Bavaria; in addition there was a constant succession of campaigns against the barbarians on the borders of the kingdom: Arabs, Avars, Slavs,

Saxons and Danes. War was carried out not only for political reasons but also for plunder. Charlemagne was often poor in the early years of his reign and a Frankish king's power rested on his ability to reward his followers. Booty taken in war was his single most important revenue.

Charlemagne fought the Arabs in Spain in 778, a campaign that ended in the ignominious defeat of Count Roland at Roncesvalles at the hands of the Basques [7]. In the south he defeated the Lombards and overthrew Tassilo of Bavaria in 788, making Bavaria for the first time an integral part of the Frankish Empire [8]. From 772 to 804 he waged a bloody and almost continual war against the Saxons, led until 785 by Widukind, and he proceeded to conquer Bohemia in 805–6.

Charlemagne's military prowess recreated a centralized European government that needed an administration more complex than any known to the Franks. Charlemagne created a new court at Aachen [3], with a palace and cathedral built on an imperial model. He employed a circle of

CONNECTIONS

See also



1 A battle of crucial importance for the future of Europe was fought at Poitiers in 732 when Charles Martel and the Franks finally put a stop to the advance of the Arabs, who threatened to destroy the Christian West completely. The Franks had already been successful in defeating the German tribes east of the Rhine. Frankish expansion under Charlemagne was therefore based on 300 years of Frankish strength.



2 Charlemagne's military leadership was the basis of his power. Frankish custom, based on a tribal levy, made every freeman liable for

military service and for equipping and feeding himself at war. Later middle-class freemen gave up their lands to local lords and fought in

the lords' retinues, saving the small men expense but dooming the unity of the Frankish army on which Charlemagne had built his power.



3 Charlemagne's Palace Chapel at Aachen was the architectural masterpiece

of Carolingian Europe and a symbol of imperial power. It was based on the de-

sign of St Vitale in Ravenna, capital of the empire in Italy after the fall of

Rome, and was designed as a chapel to house Charlemagne's throne.

scholars, including Alcuin from Northumbria and Theodulf from Spain, to educate a new literate class of administrator, to produce a new and legible script, to reform the practice and liturgy of the Church and to produce a theory of empire to accompany the reality of imperial power. Alcuin, above all, formulated the role and responsibilities of the Christian emperor, thus justifying the imperial side of the relationship with the Papacy.

Organization of Frankish society

Charlemagne ruled his lands through local counts, of whom there were more than 200. Many were of royal blood, and their appointment by Charlemagne created the beginnings of an international aristocracy that long outlived the Carolingian Empire. He employed stewards to carry out the business of government and special travelling agents, the *missi dominici*, to keep the counts in line with imperial policy and to raise troops when necessary. The royal will was expressed in a series of imperial charters that were lucid and authoritative. The Church played a central role in administration both through the ser-

vices of educated bishops and clerics and the unification of doctrine and practice.

Frankish society had earlier been based solely on personal loyalty to the king. Gradually Charlemagne insisted on a new oath of fidelity, initially only in times of crisis. These oaths were the beginning of a feudal monarchy based on the sworn allegiance of a landed nobility, a completely different concept from the personal loyalty of a tribe to its chief, for example.

Charlemagne intended to leave his empire divided between his sons, but Louis's reign, which began in 814, was a chapter of bitter family rivalry and the Church was increasing its control over secular affairs. A new wave of external attack from the Arabs, Bretons, Vikings and Normans further weakened the empire. Louis died in 840 and after three more years of feuding the Treaty of Verdun divided the empire in three.

Carolingian rule had disintegrated by the end of the ninth century but Europe had been given an imperial ideal, an international landed aristocracy and a series of significant social bonds that were soon to be revitalized.

KEY



Charlemagne was the most powerful ruler in early medieval Europe. Standing 193cm (6ft 3.5in) tall with broad shoulders, he was physically impressive. His character was enigmatic and his personal religion erratic, although he oversaw the consolidation of Christianity throughout his realm. He was politically ambitious, appointed able ministers and understood the importance of education. He unified Western Europe and recreated an equivalent of the old Roman Empire. But he regarded his lands as private property and willed them to his sons. It is hard to know whether he saw himself as an international leader or simply as an unusually successful Frankish tribal chief.



4 The coronation of Charlemagne by Pope Leo III in St Peter's on Christmas Day 800 was depicted in a 15th-century miniature by Jean Fouquet. Charlemagne, who had just restored Rome to the pope after a revolt, needed

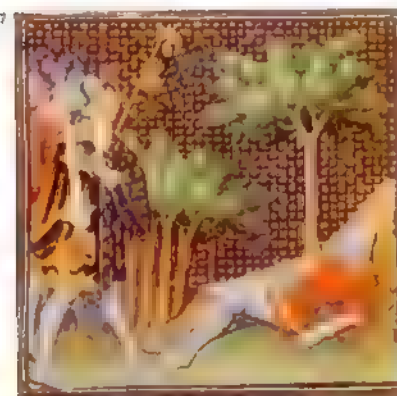
a sacred seal on his *de facto* position as emperor. The coronation made him legally heir to the Western Roman emperors. It was more the culmination of Carolingian expansion than an expression of a papal claim to select temporal rule.

5 The Lothar Crystal, a solid piece of rock crystal delicately engraved with biblical scenes, made in the 9th century, was owned by Lothar II of Lorraine (r. 855-69). The quality of the carving demonstrates

the continuing artistic achievements of the Carolingian Empire despite the political decline of the 9th century. The classical motifs show how Rome was being used as an example by the Franks.



6 This page from the *Sacramentary* of Charles the Bald (823-77) shows the coronation of a Frankish prince - possibly Charles himself. He is flanked by two clerics and appears to be being crowned by God in person, handing a crown down from heaven. The Church's role in supporting the throne and the royal sense of divine mission are thus illustrated together. The *Sacramentary* was written and illustrated in 869-70 and saw the height of achievement of the last great school of Carolingian illumination, which had developed around the Court School at Aachen and spread to Reims and Tours before it reached St Denis.



7 The death of Roland at the Battle of Roncevaux in 778 gave rise to one of the great epic poems of the Middle Ages, the *Song of Roland*. It epitomized Charlemagne's knights as chivalrous defenders of Christianity against the Saracens. In literature,

as in politics, the Carolingians thus laid a foundation of medieval lore. On his immediate retreat across the Pyrenees to put down a Saxon rising in the north, the rearguard of his army was in fact annihilated by a Basque force at Roncevaux.

8 The size of Charlemagne's empire at his death in 814 makes a sharp contrast with the partitions ratified at Verdun in 843 after 30 years of squabbling among his successors. The poet Theodulf wrote: "The wall, so firm and artistically decorated in the days of my youth is showing cracks... Everything sweet has fled from the ageing world and nothing is left of its former strength."



The Anglo-Saxon monarchy

Between the seventh and eleventh centuries, Anglo-Saxon England became a strong and stable nation, organized around a solid and powerful monarchy. This institution developed from that of the warrior chieftain, and throughout the period it continued to rely on the personal relationship of a king with his thegns [1], to whom he gave lands in exchange for companionship in peace and war, and who had a role, uncertain and fluctuating according to the strength of the previous king, in electing and advising a new monarch. Gradually the king acquired institutional authority through the patronage of the Church and the organization of the currency [5] and, despite the informal nature of much of his authority, he was the hub of the stability and prosperity of the kingdom.

The growth of a unified monarchy

In the eighth century kings of Mercia, in the Midlands, dominated England. The most famous of these was Offa (reigned 757-96) [2], the first king to have personal authority over most of southern England. He wrote a code of laws, set up a stable currency and was

a figure of international standing, dealing with Charlemagne on equal terms.

During the early ninth century power passed from Mercia to Wessex, but the first Viking raids [6], in 793 on the east coast, threatened the stability of England. Sporadic Viking attacks continued until 865, when the "Great Army" chose not to return with its loot to Scandinavia for the winter but instead divided up the land of East Anglia, the East Midlands and Yorkshire, and began to farm it. The English rallied under Alfred (reigned 871-99), king of Wessex, who defeated the Danish commander Guthrum [9] decisively at Edington in 878, and made a treaty confining the Danes to the region east of Watling Street, known as Danelaw [7]. Alfred's son, Edward the Elder (reigned 899-925), reconquered this district by 920, but the substantial numbers of Scandinavian settlers left a permanent mark on social institutions and placenames, notably in the suffix "-by" found, for instance, in "Derby". Alfred's daughter, Ethelfleda (died 918) Lady of the Mercians, led campaigns against a new enemy, Norwegian pirates, who attacked the

northwest coast, settled in Lancashire, and set up a kingdom in York in 919.

Alfred had organized his defence around burhs (forts), a practice continued in the tenth century. Some of the sites chosen were already towns. The burhs (later called boroughs) became the centres of trade and administration of taxation, and the site of mints [5], in the late Anglo-Saxon period.

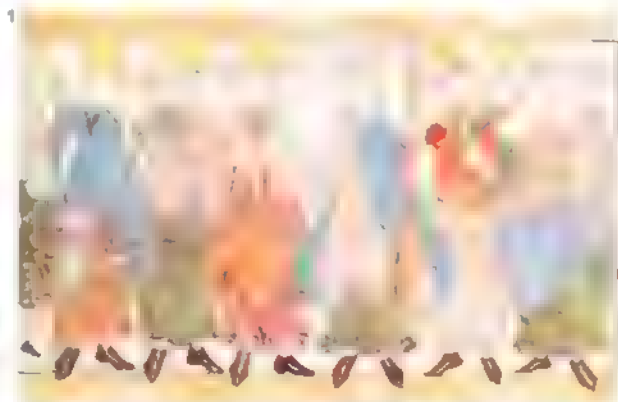
The revival of the monasteries

The Viking attacks had been particularly severe on the wealthy and unprotected monasteries, and had brought the Church to a low ebb by the beginning of the tenth century. A similar decline on the Continent was combated by the reform movement started at the monastery of Cluny in 910. Its ideas were brought to England, about 940, by some English monks who had spent time in the reformed monasteries. Notable among the monks were St Dunstan (c. 925-88) [11] who revitalized the monastery of Glastonbury, St Ethelwold (c. 908-84), Bishop of Winchester and St Oswald (died 992) Bishop of Worcester. Edgar (944-75), who

CONNECTIONS

See also
The Vikings
Wessex: European
economy 800-1000
The Danelaw
The Anglo-Saxon
monarchy

1 The king and his witan (council) were the ultimate source of justice. The witan comprised the leading churchmen and thegns, or nobles, who were bound to the king by ties of personal loyalty. These formal assemblies developed out of the king's council of the period of Mercian supremacy. They brought problems to the attention of the king and assented to his most important ecclesiastical appointments and land-grants.

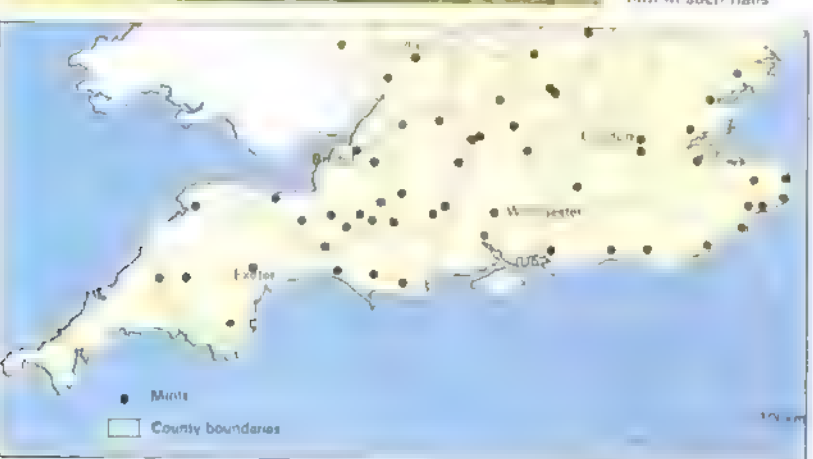
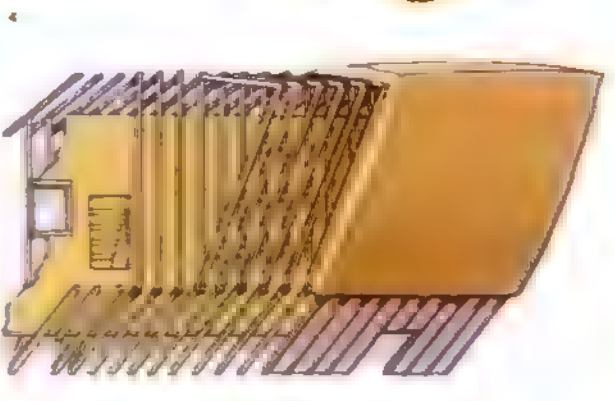


2 A standardized coinage, based on the silver penny, was introduced by Offa of Mercia, whose name is shown on this coin. It was used for most transactions and was accepted on the Continent. Other coins of Offa copy Arabic models. Offa effectively ended the old heptarchy, or division of England into seven separate kingdoms, even though his immediate successors were unable to maintain the unity that he had created.

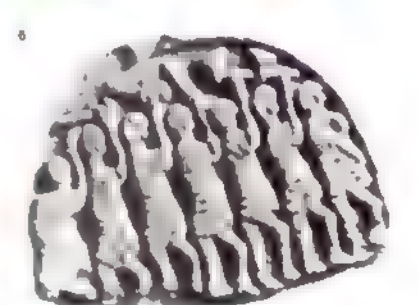


3 Offa's Dyke, running along much of the frontier between Mercia and Wales, testifies to the power of the 8th-century Mercian kings. It was intended more to mark the border than for defence.

4 The Royal Hall of Cheddar is typical of the halls that were the centre of royal power and were the first permanent royal residences. The witan enjoyed the king's hospitality and advised him in such halls.



5 Mints were set up in many towns in the later Anglo-Saxon period. As many as 44 places issued coins during the ten-month reign of Harold in 1066 alone. The king kept strict control over the currency, maintaining the purity of the metal and regularly recalling the entire coinage for reissue at one time every six years. Although the name of the mint appeared on the coins, the dies were centrally issued. Penalties for counterfeiting included mutilation and death.



6 The Vikings raided Lindisfarne monastery in 793, and raids on the east coast for loot continued for 50 years. Most of the surviving accounts

of the raids were written by monks, so the Vikings have acquired an image of savagery that ignores the constructive side of their settlement.

became king in 959, was an ardent supporter of the monastic revival and was the first king to be crowned with a ceremony that underlined the religious associations of the monarchy [8]. The service, written by St Dunstan, remains the basis for coronation services. The alliance of monasticism with the king gave the ruler a new agency for asserting his authority in the country.

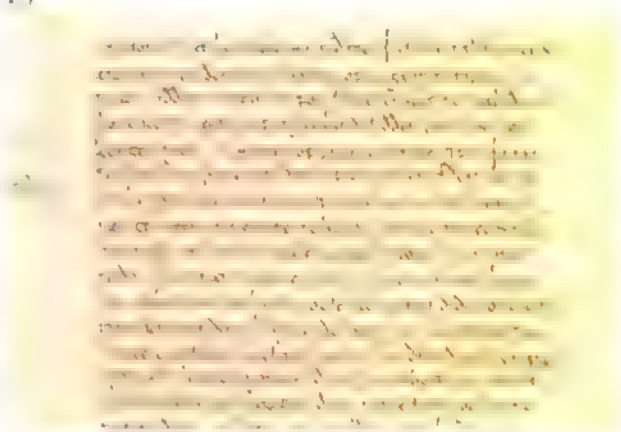
Edgar's son Ethelred II (reigned 978–1016), was again faced with attacks by aggressive Scandinavians. Large taxes, known as Danegeld, were collected to buy off these warbands, so that most of the late Saxon coins still in existence are in the collections of Scandinavian museums. The Danegeld did not prevent the eventual victory of the Danes under Sweyn Forkbeard (died 1014), whose son Canute (994–1035) [10] became king of England in 1016, and of his home country Denmark in 1018.

The nature of Anglo-Saxon kingship

The monarchy changed considerably in the course of the period 500–1050. There were, however, some constant themes. The impor-

ance of royal blood is emphasized in the early period by genealogies, whose chief function was to demonstrate the ancestry of the royal houses, and to relate them through mythical rulers to pagan gods and, in Christian times, through biblical characters to Adam and Eve. Later, with the growing regularization of rules of descent, the question of the right of the king to the throne took on a religious aspect.

The king did not rule absolutely, but was advised by his council of thegns, the witan [1] and observed accepted codes of law and custom. These might be issued by each king in accordance with established usage. There was a complex system of taxation, coinage was maintained at a high standard of purity and constantly changed. Local justice was organized through the courts of the shire and hundred, and the defence of each county by earls, appointed by the king. These institutions were strengthened, rather than weakened, by the desire to oppose the invasions of the Scandinavians. Norman administration was grafted onto an already existing complex and efficient system.



The Anglo-Saxon Chronicle, shown here in the version copied at Peterborough in 1122, is a vital source for knowledge of political history before the Norman Conquest. A collection of genea-

logies and chronicles prepared by monks, it appeared in a number of different versions. As a result, it is possible to see a regional view of events, as in the case of the crisis of 1051–2 when the authority of Ed-

ward the Confessor (r. 1042–86) was challenged by the sons of Earl Godwin (d. 1063). The *Chronicle* is said to have been founded by King Alfred as part of his encouragement of English culture.



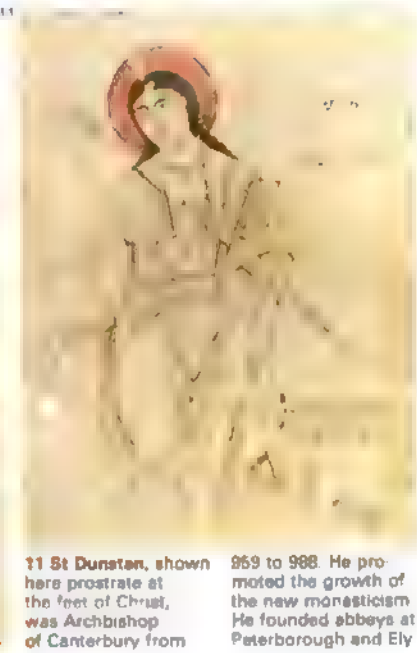
7 The Danelaw was recognized by King Alfred in the treaty of 886. In the east of the country the Danish traditions of independence and local autonomy continued well into the medieval period. A Viking kingdom was soon established in Lancashire which prevented the Danish expansion to the north.

8 Edgar the Peaceable was a powerful and efficient king who is said to have shown his political authority over the whole of England by being rowed on the River Dee by six sub-kings. He encouraged the monastic revival and this manuscript records his coronation, which took place in 973, two years before he died.



9 Guthrum (d. 890) is said to have been the first Scandinavian to settle in England. In the treaty of 878 with Alfred he agreed to convert the Danes to Christianity and took the name Aethelstan after his own baptism.

10 Canute, or Cnut, set up an empire that took in much of the coastlands of the North Sea. As king of England he encouraged the established institutions there; he grants a charter to the New Minster at Winchester with his wife.



11 St Dunstan, shown here prostrate at the feet of Christ, was Archbishop of Canterbury from

969 to 988. He promoted the growth of the new monasticism. He founded abbeys at Peterborough and Ely.

The Vikings

In the late eighth century the pagan Scandinavians, known as the Vikings, burst upon the rich kingdoms of Western Europe. Improvements in ship design and overpopulation at home were two reasons behind Viking expansions at this time. They attacked rich and undefended monasteries, pillaging their treasures and killing and enslaving the priests. The attack in 793 on St Cuthbert's monastery at Lindisfarne in Northumberland [2] was the most shocking of these occurrences because it was the first

Colonization of Britain

Some of those who came from Scandinavia turned their attention to colonization. Graves in western Scotland, the Hebrides, Shetland, Orkney and Isle of Man, furnished after the pagan fashions of their Scandinavian homelands with weapons and household goods, tell of the gradual settlement of these areas [1]. In England, raids gave way to settlement in the 860s and, after a series of campaigns against the English kingdoms, the Scandinavians – by treaty with Alfred the Great in 878 – settled as conquerors to the

east and north of a line from the River Lea to the Dee. Here they established at least one kingdom (based on York) as well as other political groupings in East Anglia and the Midlands (where their power was based on the "Five Boroughs" – Leicester, Stamford, Lincoln, Derby and Nottingham). By the middle of the tenth century the English had reconquered these areas, although in the early eleventh century the whole of England was again conquered by the Scandinavians, and a Dane, Canute (994–1035), became king of England for a short period.

The Scandinavian settlements in Scotland and the Isle of Man [8] continued until the thirteenth century (in Orkney and Shetland islands until the fifteenth century). The Scandinavians in Ireland did not attempt to conquer the whole country, but founded a series of towns (of which Dublin was the most important) through which they could influence the trade of the Western European seaboard. Goods from France and Spain were exchanged for slaves, furs, ivory and other products of the north.

In other Western European countries the

Scandinavians were less successful as colonists or conquerors. Only in Normandy did they succeed. There in 911 a Scandinavian, Rollo, was given the right to settle and govern much of that corner of France.

The Scandinavians also moved into the North Atlantic looking for plunder and farmland. They settled the virtually unknown Faroe Islands and Iceland and reached Greenland, where they founded two major settlements. They also appear to have made landings on the coast of North America.

Eastern Europe

The Scandinavians were also influential in Eastern Europe. From the Roman period onwards they traded spasmodically with the eastern Mediterranean, travelling by way of the Polish and Russian rivers. In the eighth century a larger and more organized commercial traffic developed. The Swedes founded trading stations and collected tribute from Finno-Ugric, Balt and Slav tribes in the east Baltic. In the ninth century the Scandinavians contributed to the growth of Russian trading towns at Staraja Ladoga.

CONNECTIONS

See also

Western European
colonization
Medieval Russia
Jörmund
Danish-Swedish
monarchy
Medieval Iceland
settled to the
Rurik
Rurik's kingdom
Norman and
Anglo-Saxon
invasions

1 The Scandinavians of the Viking age used these main routes in their search for wealth and land to settle. In the east are the riverside towns they established as centres, such as Kiev and Novgorod. From these, along rivers, the Scandinavians reached the rich trade and wealth of the Orient and the Byzantine Empire. In the west the chief areas of settlement were the northern and western islands of Britain, northern and eastern England, northern France and the Irish ports (which they also founded). By the western sea routes they reached America, but failed to establish any settlements there.

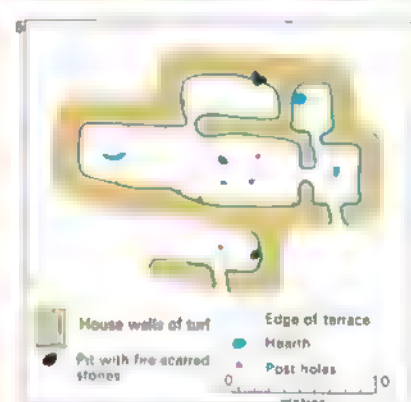


3 This bronze figure of the Buddha was imported from Afghanistan or India to Sweden in the early Viking age, presumably as a souvenir. Other objects imported into Scandinavia and found

during excavation include Arabic, Byzantine, English, French and German coins, as well as silks and foreign animal skins, metalwork from Britain and pottery and glass from northern Germany.



2 These two views from a stone on Lindisfarne commemorate the Viking invasion. An inscription from it reads: '793 In this year dire portents appeared over Northumbria... the ravages of heathen men destroyed God's church on Lindisfarne.'



4 Thor, the Scandinavian god of thunder, agriculture and war, is usually symbolized by a hammer. In this 6.7cm (2.5in) bronze, his beard develops into a hammer. The symbol was often used as an amulet to protect the wearer against evil.

5 This plan of a house excavated at L'Anse-aux-Meadows in Newfoundland can be dated to the 11th century. It has many of the structural features of houses built by the Vikings in their colonial settlements in Iceland and Greenland.

Novgorod and Kiev The river route along the Volchov and the Dnieper (which led from Lake Ladoga to the Black Sea and Constantinople, now called Istanbul) was largely controlled by the Scandinavians from the ninth to the eleventh centuries.

Trade and economic organization

The main exports of the Scandinavians were furs, honey and slaves; the main imports silver, spices and other luxury goods. The volume of this eastern trade is demonstrated by the fact that (at a conservative estimate) some 40,000 Arabic coins have been found in Viking age sites in Gotland and Sweden.

These eastern adventures are also reflected in long inscriptions carved, in runic characters, on Swedish stones. Some refer to merchant expeditions and imply a fairly peaceful Scandinavian presence in Russia. However some tell of more warlike episodes – a military expedition to Arabia, for example, or of Scandinavian mercenaries in Russia or Byzantium. Greek literary sources attest to the presence of Scandinavians serving in the bodyguard of the emperor.

The raids, colonization, trade and other activities of the Vikings, which have so firmly established them in European history, were based on a settled domestic economy. This economy had its foundation in agriculture but was expanded in the Viking age by the development of marginal land in Scandinavia itself and by the foundation of towns which functioned as major trading stations – towns such as Birka in Sweden and Hedeby in South Jutland [7]. The international contacts of the Scandinavians are clearly seen in these towns, both in excavated material and in the written descriptions of travellers. The Scandinavian of the Viking age was, however, basically a farmer – even traders and pirates were apt to travel extensively abroad, mainly in summer.

The image of the Vikings as marauders and pirates is influenced by the chronicles of priests who identified them with pillaged monasteries. The fact that the Scandinavians were pagan compounded any offence. But in the tenth century the Scandinavians were gradually converted to Christianity and so their image improved.

KEY



This richly carved ship's prow is part of a complete Viking longship found in a woman's grave of the 8th century at Oseberg in Norway. The ship itself, built of oak, was 23m (75ft) long, and was basically a coastal sailing vessel which could also be propelled by oars. One of the larger examples of Viking longships, it was probably used for raiding and longer voyages of discovery and colonization. Much smaller ships were used for coastal and river warfare and trading. The prow here is decorated with interlocking animals and is shaped in the form of a serpent, a style that is characteristic of the final pre-Christian period of Viking art.



6 The hull of a small cargo vessel was raised from the bed of Roskilde fjord in Denmark and reconstructed. It is 13.6m (44ft) long. There is decking fore and aft with a hold in the centre. The mast is seated on the keel and the one large sail is supported by a single transverse spar. When not in use the spar could be lowered and stowed away. The vessel could also be rowed by means of sweeps inserted through the square holes that are clearly seen in the gunwale plank. Steering was by means of a paddle attached aft on the starboard quarter (starboard being an old Norse word for "steering side").

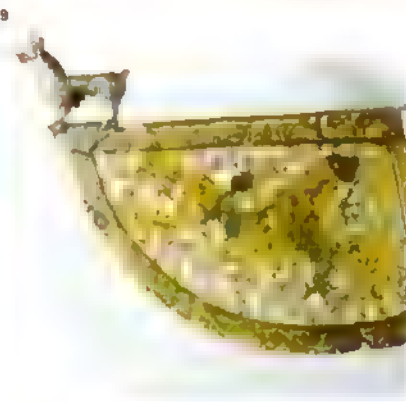


7 The open fire in the centre of this house, a reconstruction from the town of Hedeby in South Jutland, provided heat for the room and for cooking. The family would sit on the earth benches at the sides of the room and eat off low

tables. The walls are of wattle and daub and may have been covered with hangings. There was a room at each end.

8 The annual ceremony at Tynwald on the Isle of Man comes from the assembly established

there by the Scandinavians in the Viking age (the Norwegians finally surrendered Man in 1286). Such assemblies acted as a combination of town meeting, law court and fair, and were held in various places throughout the Viking world.



9 The craftsmanship of the Vikings is well demonstrated by this early 11th-century weather vane. Made of gilt bronze, it may originally have graced a Viking ship. The Scandinavians were fascinated by contorted animal ornament.

Throughout the Viking age, their craftsmen produced distinguished objects decorated with animal ornament largely free from the influence of contemporary European art. Objects like this vane demonstrate the brilliance of the ornamentation on

Western European economy 800–1000

Western Europe in the ninth and tenth centuries was the poor relation of both the Arab and the Byzantine worlds. It was poor in the exploitation of its natural resources, in technical ability, in political cohesion and cultural achievement. Europe's social and economic backwardness was further threatened by Magyar hordes from the east and incessant raids by Vikings who swept southwards from the Scandinavian countries.

The growth of self-sufficiency

The temporary political unity and economic regulations of the Carolingians (Charlemagne and his successors) throw little light on actual conditions of life in the ninth century. Charlemagne attempted to stabilize and centralize the coinage throughout his empire, centred on France, to avoid exploitation in times of scarcity by regulating prices, to facilitate trade by keeping down internal customs dues and to introduce a universal system of weights and measures. But the regularity with which his instructions were issued indicates their ineffectiveness; the actual unit of production and consumption

remained the great estate [1], a legacy of the Roman villa.

The economy of the Roman world in the invasion period was based on the great estates of the old landowning aristocracy. The decline of easy communications and trade forced these social units to become more self-sufficient. Alongside the estates, some of which passed into the hands of the invaders, there remained a free peasantry that still existed in the ninth century. But its decline was hastened by the centralization policies of Charlemagne and the obligations imposed by the government on all free men. It became preferable to surrender individual land rights to the local lord in order to escape the fiscal liabilities of freedom.

The Church, trade and commerce

The decline in personal freedom benefited the great estates of the aristocracy and the Church. Most available records of ninth-century estates are monastic and show a pattern of organized growth indicating that the Church played a crucial role in maintaining economic stability in difficult times.

The growth of European towns was based both on the old Roman cities (especially in Italy and the south) and on the garrisons and royal residences of the Carolingians and the Merovingians, their predecessors, such as Aachen, Nijmegen, Worms, Frankfurt and Raubon. Other cities, and mercantile suburbs of older cities such as Paris, grew round the monasteries which were the major producers of surplus goods for sale.

The uncertainty of statistics of trade and commerce after the fall of the Western Empire has given rise to much theorizing by historians. It fostered especially the belief that the economy of the Western world survived the Germanic invasions, but was brought to a halt by the Islamic conquests of the seventh century. The loss of the Mediterranean, it was argued, destroyed the movement of merchandise both between East and West and also internally within the West, reducing trade to mere barter. In fact trade continued, although on a much reduced scale. The centres of commerce initially switched from Provence and Languedoc to the north of Europe – Frisia, the Low Coun-

CONNECTIONS

See also

Arabic Empire

Carolingian Empire

Central Europe

Charlemagne

Christianity

Europe

France

Germany

Italy

Medieval Europe

Monasteries

Northern Europe

Peasants

Roman Empire

Spain

Trade

Western Europe



1 A typical "villa" or rural social unit in Carolingian Europe is here illustrated and its population and composition shown. This organization was the result of the fusion of the old Roman "villa" with the customs of the invading

Germanic peoples. The status of the peasants varied: some were free, some owed various degrees and types of service to the lord. An estate was divided into the demesne land, the property of the land lord cultivated by forced labour, and

the land cultivated by his tenants as "mans". The return for their tenancy was calculated in various burdens of service. These could be increased if the tenant exchanged his military obligations for service to the lord. Carolingian

peasants were divided into "coloni", free men still obliged to till their own land, "lidi", half-free men owing certain legal obligations, and "servi" who had no legal rights at all. But although outside the law, "servi" did hold

property. The total population of the estate was known as the "familia" and was supervised by the landlord or his agent. Slaves in principle worked the demesne land for three days a week, while "coloni" and "lidi" per-

formed set tasks throughout the year. Estates such as the one illustrated were centralized units of production on land redeemed from the surrounding forests. They were also early centres of rudimentary industrial

organization for weaving and cloth production. Finally they were the basic unit of the rural feudal society that provided both the stability and the opportunity for oppression in early medieval society.

tries, northern France and the Rhineland. The old route to the north from Ostia (the port of Rome) to Provence and thence by land gave way to a land route over the Alps. Italian ports such as Amalfi [4] and Gaeta maintained a precarious commercial liaison with the East and in the tenth century the emergence of Venice [3] foreshadowed a new era in Mediterranean trade.

Charlemagne sought to create a stable coinage, but never succeeded in making the minting of money a royal monopoly which was one possible way of avoiding constant debasement. Charlemagne did understand the need for a coinage to be used as a medium of exchange, rather than barter, and his silver denarius, or penny, became one of the standard coins of the medieval West. But Carolingian coinage supplied only the small change of the West, whereas the international trading currency of the Middle Ages became the Byzantine gold nomisma and the Arab gold dinar [2].

The population of Western Europe expanded very slowly after the ravages of the invasion years. Stagnant economies could not

support cities of 50,000 to 100,000 people such as those of the Arab world at Cairo, Antioch and in Spain at Córdoba. Under the manorial system, towns had lost their importance and many were abandoned.

Industry and agriculture

Industry, such as mining and weaving, was only in its infancy in the ninth century and was mainly centred on monastic properties. Comprehensive rotational systems of agriculture barely survived on the old Roman estates. Agricultural technology gradually improved with the introduction of heavy wheeled ploughs for northern soils. The harrow and the flail were probably introduced at that time and the decline of slavery made the extended use of watermills for grinding corn an economic necessity. Yet production was too low to support any great increase in population and trade was too ill-organized to offset local effects of crop failure and plague (Key). The technological knowledge of the Romans was never wholly lost, however, and new inventions were gradually developed.

2 Medieval currency problems were twofold: to preserve a coinage acceptable to all trading partners and also to enable transactions to be performed through a monetary medium rather than by barter. The Clovis II coin [A] shows the Merovin-

gian attempt to maintain a prestige form of Roman coinage but debased both in design and metallic content. Coins such as the gold solidus [B] of Louis the Pious (778-840) were minted in many towns, although under the control of the king. No Western economic

system at this time could support such reliable coinages as the Byzantine nomisma [C] or the Arab gold dinar [D]. These coins were the basic tender of medieval international trade until the Florentine florin was minted in the 14th century.

2



ge in medieval times. The only way to ensure a successful harvest was the only insurance against famine and its constant attendant, plague.



Early medieval life was primarily agricultural. Harvest time was the crucial part of the year.

Cereals were the staple of life, meat being a luxury. Limited productivity and trade meant that

a successful harvest was the only insurance against famine and its constant attendant, plague.



3 Trade in the Mediterranean was sharply curtailed by the pirates who followed in the wake of Arab conquests. Yet gradually the need for raw materials from the West and for luxury goods and spices from the East ensured that increasing numbers of vessels, as this one portrayed in a Venetian mosaic, plied the Mediterranean.

4 Amalfi, with its natural harbour, was one of the key commercial links between the Western world and Byzantium before the rise of Venice. The revival of western Mediterranean trade came from Italian towns such as Amalfi, Naples, Salerno and Ravenna that had the closest links with the Byzantine world.



The Holy Roman Empire

The Holy Roman Empire sought to re-create a united Christian West such as had existed in theory during the last years of the Roman Empire. It was holy because it was based on the theory that the pope was supreme in ecclesiastical affairs, the emperor being the secular arm and the defender of the Church. It was Roman – despite the fact that the emperor was first a Frank and then a German – because Rome had for so long been the political centre of the world.

Power struggle

The theory that the pope represented the spiritual authority of God on earth and the emperor temporal authority was rarely a reality. In practice there were strong emperors and strong popes, and power fluctuated. From the mid-eighth century the Papacy had looked increasingly to the Franks for protection against the Lombards, a dependence which culminated in 800 when Leo III crowned Charlemagne as emperor in Rome. Although the term was not used until the twelfth century, the papal recognition of Charlemagne may be seen as marking

the beginning of the Holy Roman Empire. The tenth century was dominated by the political success of the Ottonian emperors (962–1024), a Saxon royal house [Key 1, 2, 3]. Otto the Great (912–73) was enthroned as king of the Germans at Aachen in 936 and crowned as Roman Emperor in 962 [4].

The Salian dynasty (1024–1125) saw the height of imperial power at a time when the Papacy was also powerful. The Salians were a Frankish family. Their empire under Conrad II (990–1039) included Germany, Burgundy and Italy, and Conrad saw himself as ruler of the city of Rome.

The Investiture Contest

But a new reforming spirit within the Papacy made a major issue over the problems of investiture: who should appoint bishops, the pope or the secular ruler? The quarrel was essentially about the great wealth and power of the benefices at stake. No ruler could afford to relinquish control over appointments to the wealthiest positions in the land.

The so-called Investiture Contest culmi-

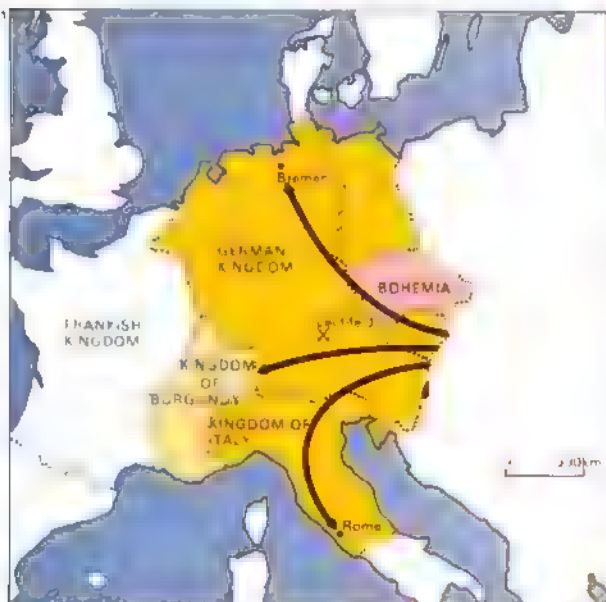
nated in a complete breakdown of imperial-papal relations which damaged the theoretical justification and the effective power of the Holy Roman Empire. The contest reached its height in the reign of Henry IV (1050–1106), who found that there was no possible compromise on this issue with Pope Gregory VII. Accordingly he called an imperial synod at Worms in 1076 and deposed Gregory. Gregory retaliated, deposed and excommunicated Henry, and began to build up a strong anti-imperial coalition. Henry, realizing the seriousness of his position, spent three days in a hair shirt at Canossa [6] awaiting papal forgiveness. Gregory then withdrew the excommunication but not the deposition. Henry had his revenge in 1084 when he marched on Rome and drove Gregory to a bitter death in exile. The Investiture Contest was finally solved by a compromise in which the emperor was allowed to invest a bishop with his sceptre before consecration by the ecclesiastical authorities.

The religious and political pretensions of the empire reached their height under the Hohenstaufens (1138–1254). Frederick I

CONNECTIONS

See also

1. The Holy Roman Empire
2. The Investiture Contest
3. The Holy Lance
4. The Imperial Crown of Otto I
5. "Charlemagne's hunting horn"
6. The Tree of Jesse



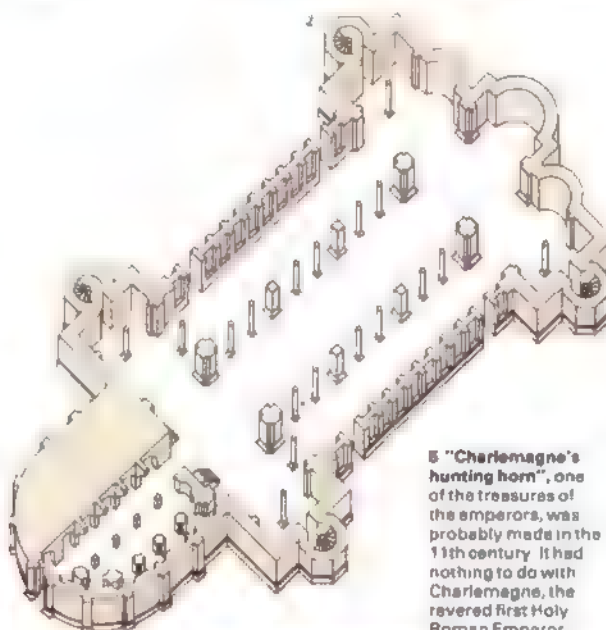
1. Empire of Otto I 962
2. independent state
3. tributary province after 962
4. expansion by Magyars after 955

1. Expansion of the empire followed the crowning in 936 of a Saxon, Otto I (912–73), as supreme leader of the five German tribal duchies – Saxony, Franconia, Bavaria, Swabia and Lotharingia. His attempts to increase his power led to constant strife and to his papal coronation as emperor in 962. He became King of the Lombards in 951 and in 955 his victory over the Magyars at Lechfeld began the westwards expansion of the empire.

2. St Michael's at Hildesheim in Saxony, destroyed in World War II, was built in the early 11th century under the supervision of Bishop Bernward. It

was later decorated with fine bronze ornaments and a magnificent flat, painted ceiling entirely covered with a representation of the Tree of Jesse. The plan

of the church referred back both to early Christian and to Carolingian architecture but its internal rhythms were made subtler by two transepts and an apse



5. "Charlemagne's hunting horn", one of the treasures of the emperors, was probably made in the 11th century. It had nothing to do with Charlemagne, the revered first Holy Roman Emperor.



3. The Holy Lance, which pierced the side of Christ, was politically the most important relic. In legend given by St Helena to Constantine, it passed to Otto I, who bore it in battle.

4. The imperial crown of Otto I was made for his papal investiture in 962. With the Christian cross in front, it is octagonal to represent the heavenly Jerusalem, with a semicircular strip above to represent world dominion. Two panels back and front each contain 12 stones representing the tribes of Israel. On the sides are biblical kings. The crown symbolizes the functions of the wearer as temporal ruler and regent of Christ on earth.



"Barbarossa" (1123-90) and Henry VI (1165-97) saw themselves as the holy leaders of a God-given German Empire. Frederick I's power was based on an alliance with Henry the Lion of Saxony against the Normans and the Romans, and the opposition of the pope in 1159 led him to appoint his own pope, Victor IV. The Papacy thereafter backed the Lombard League—an association of north Italian cities that opposed Frederick and forced him to make peace after the Battle of Legano in 1176

A dream shattered

Henry VI claimed all the lands of the Normans, especially Sicily [9], and dreamed of capturing Tunis and even Constantinople. He built the first imperial fleet, and defeated a hostile coalition between northern Germany and Britain when he made Richard Coeur de Lion his prisoner. His son Frederick II (1194-1250) had been brought up in Sicily and was more Mediterranean than German. Ambitious but sceptical, he was the mortal enemy of the Papacy and achieved the greatest expansion of imperial influence [7]

6 Canossa was the most humiliating episode in the history of the empire

Although the political results ultimately favoured Henry IV, the spectacle of a



penitent emperor begging for the intercession of Abbot Hugh of Cluny and Matilda of Tuscany. In seeking the pope's pardon was one that injured German pride so much that even Bismarck's 19th-century conflict with the Papacy was based on a desire "never to go to Canossa again"

7 The territorial achievements of Frederick II (1194-1250), culminating in the Battle of Bouvines (1214) at which he defeated his last remaining opponents, were the fulfilment of German imperial ambition. Frederick inherited his Sicilian king-

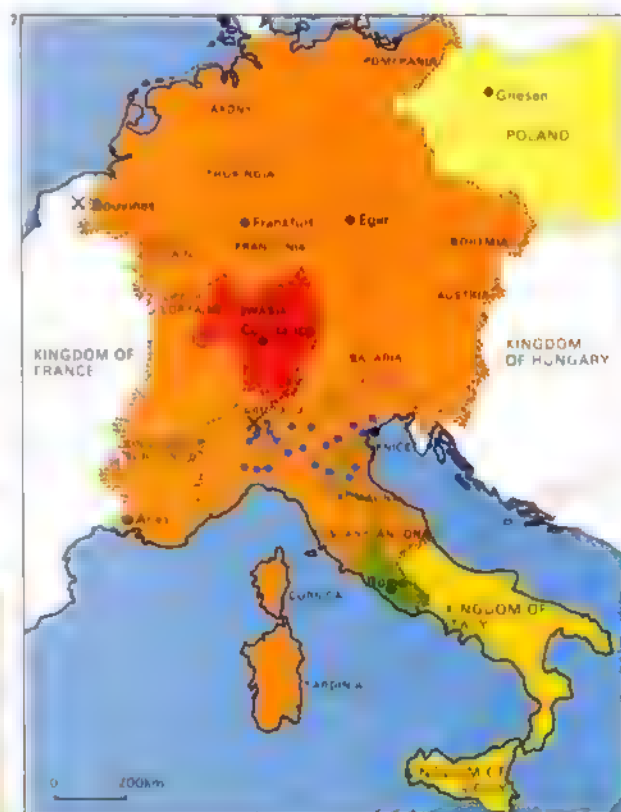
dom and his southern ambitions from his father, and his lands completely surrounded the papal state. He achieved the federation of Germanic countries and an administration imbued with Mediterranean culture that had been the dream of Otto III

Sicily under the Hohenstaufens was culturally a mixture of Italian, Arabic Greek, Norman and Germanic influences, and was part of a larger culture that spread from Mesopotamia through Moorish Spain. Frederick saw politics as an art, government as a bureaucratic skill. He patronized the arts and sciences and founded the university of Naples to rival Bologna. He saw the empire as a German federation and in 1231 was prepared to recognize the territorial claims of the princes. In 1235, he published the Landfrieden of Mainz, the first German law written in German which defined the empire as a league of princes within a monarchic framework. His negotiations with the Muslims scandalized the Christian West but enabled him to be crowned at Jerusalem without fighting a crusade. At the Council of Lyons in 1245 he was condemned and deposed. When, on his death, the Papacy broke the power of his family, the future of the international empire of his dreams was shattered. The empire survived, but as a spectral organization, until Napoleon Bonaparte's arrival in Germany in 1806.

Sole Hohenstaufen duchy 1152
 Empire of Frederick I ruled with Emperor 1152
 Frederick I
 Ruled by Henry VI and Frederick II
 Papal states 1152
 Papal states from 1213
 Towns of League of Lombardy and Verona



The Imperial seal of Otto III (r. 980-1002) epitomized his ambition with the inscription *OTTO IMPERATOR AUGUSTUS RENOVATIO IMPERII ROMANORUM*—Emperor Otto Augustus, the Renewal of the Empire of the Romans. The grand son of Otto I who founded the dynasty, Otto III was crowned aged three. His education was designed to produce an emperor who combined German strength and tradition with the new Arab, Greek and Latin learning. To identify himself with Charlemagne, Otto opened his tomb at Aachen and stole a tooth, nail clippings and clothes. On feast days his clothes were decorated with lions, eagles and dragons and hung with bells.



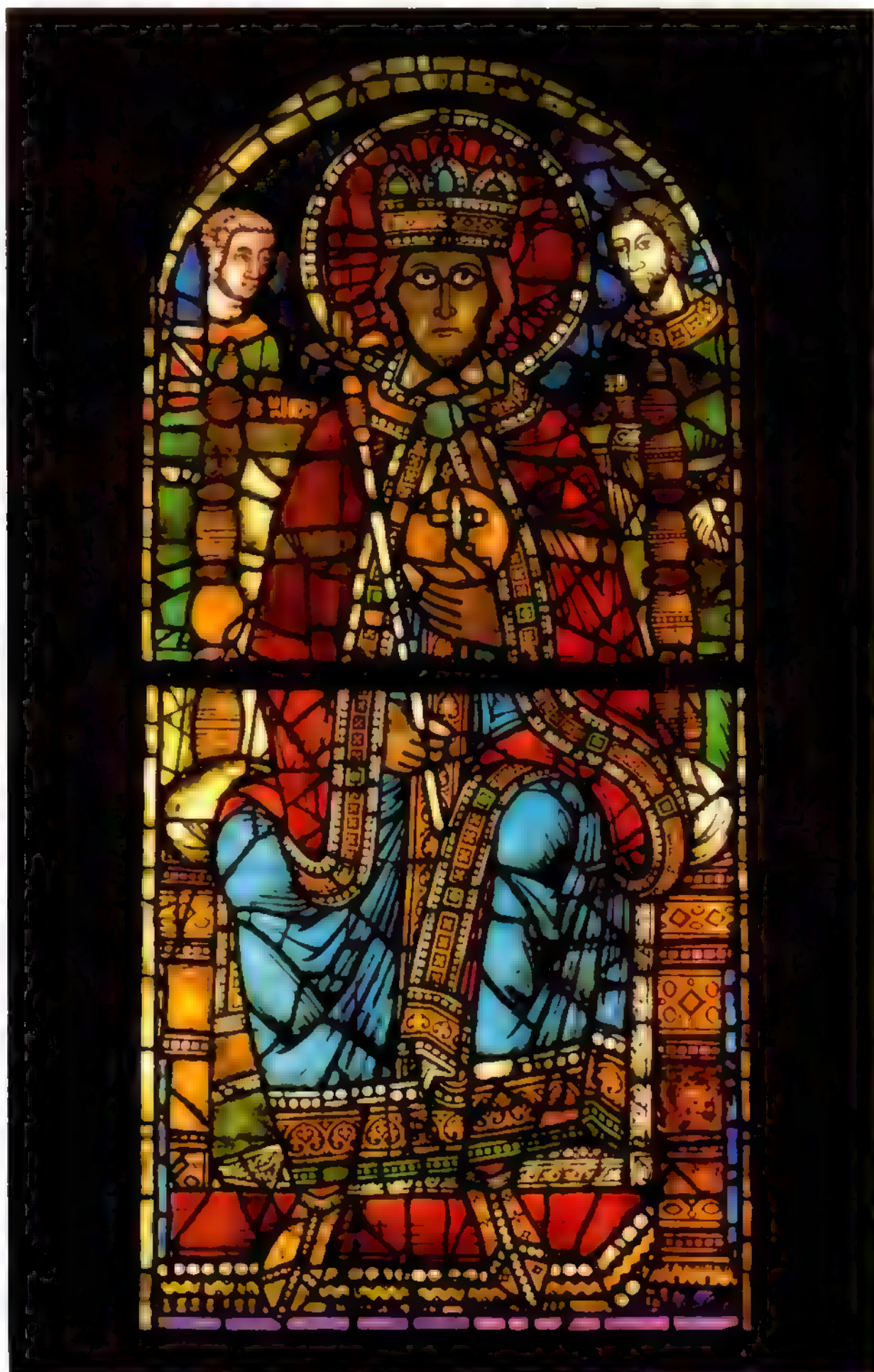
8 The final humiliation of Henry IV, portrayed in this contemporary illustration, came in 1105 when he was forced to surrender his imperial regalia to his son, Henry V. Some of Henry IV's family had disagreed with his deposition of Gregory VII and installation of a new pope. Henry V joined them after becoming co-ruler in 1099 and soon overthrew the emperor

9 Peter of Eboli's illumination of the siege of Naples (1191) shows the army of Henry VI attempting to enforce his wife's claim to the south Italian Norman kingdom. Despite his early successes, Naples, aided by the failure of the imperial naval allies and by plague in the besieging army, did not fall. Henry VI was crowned King of Sicily only in 1194



10 Castel del Monte in southern Italy is the finest of a chain of strategic fortifications designed in a novel and functional manner by Frederick II. He built up in Sicily and Apulia a system of defence and administration that was the most thorough and rational in Europe. As fortifications the castles protected Frederick from attack by the Papacy. As architecture, they were part of the flowering of the arts during Frederick's reign.

The political significance of Charlemagne's coronation by the Pope on Christmas Day, 800, has intrigued artists ever since. This medieval modern stained glass depicts what is said to be the original scene in Strasbourg Cathedral.



islamic architecture
in the region of
western europe this
richly decorated arch
tops of the palace of
the sultan of granada
granada spain



European expansion to the east

In the centuries before AD 1000, while a lively, enterprising society was emerging in the villages and towns of Western Europe, Eastern Europe was a land of sparsely occupied forests, grasslands and low, easily crossed mountains through which passed at random a variety of peoples. The roaming shepherds of the Carpathians, the nomads from the south Russian steppe who settled in the Danube basin, and the forest peoples of the Vistula (ancestors respectively of the modern Romanians, Hungarians and Poles) travelled up and down the region between the Baltic and the Danube, the Pripet Marshes and the Elbe. They were untouched either by the political or the religious allegiances of the settled lands to the west and south and were impervious even to the cultures of each other.

The forest peoples, Polish and Czech Slavs, seem to have been divided into numerous tribes and many of the *grodz* - fortified settlements on hills or marsh islands which were their capitals - have been uncovered. The grasslands of the middle Danube were the haunts of successive nomadic

peoples who lived by raiding neighbouring lands. The last ones, the fierce Magyars of mixed Finnish and Turkish origin, reached the area by the late ninth century.

The spread of German influence

To the west of these peoples were the Germans, whose national identity was also recent. Their relations with the Slavs were close, sometimes hostile but often peaceful: their society of well-organized communities and their Christian civilization, contained within the Holy Roman Empire, exercised a constant and fruitful pressure. Under the powerful Ottonian kings (919-1024, emperors from 962) the German advance was rapid and for the first time there is evidence that the tribes, in their turn, were beginning to unite: by 1000 the Magyars (whose raids were checked by the German victory at the Lechfeld in 955), the Bohemians and the Poles [1] had each united under single, independent dynasties. The earliest sign of the evolution was the advance of Christianity [7]. Already in the ninth century Byzantine missionaries converted the

Moravians, whose mushroom empire was annihilated by the Magyars; in its place under German influence, there grew up the Czech duchy of Bohemia, whose first ruler, St Wenceslas (c. 907-29), became a Christian and a tributary of the German king.

Bohemia under German auspices was the focus for the rapid development of all Eastern Europe. Duke Boleslav I (reigned 929-63) was the father-in-law of the first Polish duke, Mieszko I (reigned 963-92) who received Christianity at his hands, while the influence of St Adalbert, Bishop of Prague [3], caused the Hungarian Duke Stephen (reigned 997-1038) to be baptized. But German influence was ambivalent. In AD 1000 the Polish duke Boleslav the Mighty (c. 996-1025) received a crown from the emperor and Stephen, who ended the influence of Eastern Christianity in Hungary received a crown from the pope.

The emergence of national identities

In the eleventh century the Bohemians, Poles and Hungarians held their own and they acquired a sense of national identity under

CONNECTIONS

See also

Early History

Medieval History

Religion

Warfare

World History

1 Boleslav the Mighty was the founder of the first Polish monarchy. His reign resulted in 30 years of internal consolidation for his country, the building of a national Polish Christian Church and significant expansion abroad. All of these developments changed Poland from an alliance of Slav tribes into a powerful, centralized monarchy. Alliances with Bohemia, Hungary and Kiev enabled the king to make the Oder and the Vistula virtually Polish rivers and also allowed him to declare war on Emperor Henry II (973-1024) between 1004 and 1008. The emperor finally recognized the integrity of the Polish state and Boleslav was crowned in 1024.



2 St Wenceslas, Duke of Bohemia and an enthusiastic Christian convert, became the patron saint of Poland and Bohemia. As duke he failed to

resist the aggression of the German king Henry II (r. 819-36) who meant to subdue the Wends and Slavs as well as the Bohemians. Bohemia became a German fief

(owing nominal allegiance to the emperor) and Wenceslas, who was blamed for the defeat, was murdered by his brother, Boleslav (who succeeded him as Boleslav I).



3 The cathedral of Gniezno (Gnesen) was the centre of the Christian religion of the new Polish state. It housed the relics of St Adalbert of

Prague, one of the apostles of Eastern Europe. Gniezno, an ancient Polish centre, was the most important of the castle towns of Boleslav the Mighty.

These towns were thriving garrisons which gradually fostered local trade and finally became centres for the export of corn to the West.

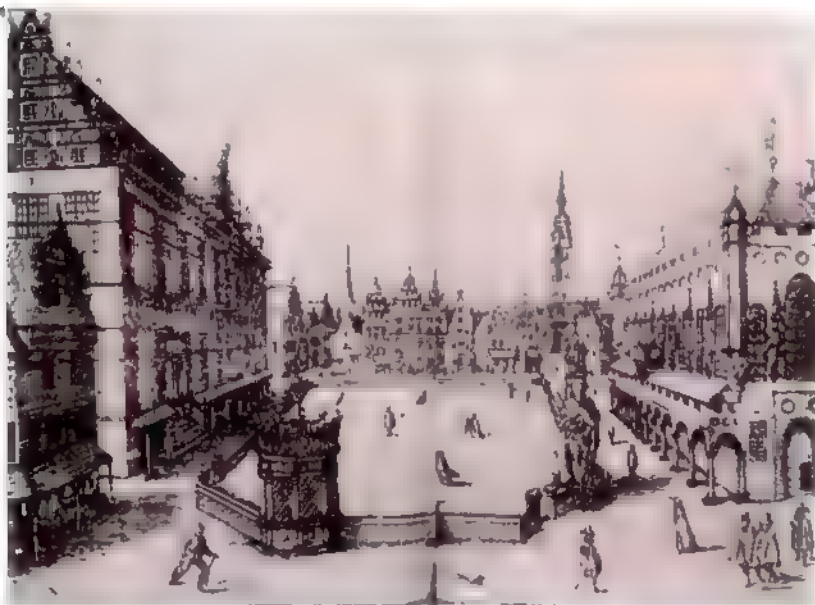


1100 it resumed in force. Slavonic and Magyar rulers welcomed the Germans as cultivators of the sparsely inhabited soil. First came merchants, to swell the Wendish, Polish and Bohemian towns, especially Lübeck and Danzig on the Baltic. A massive migration of farmers followed in the twelfth century: they occupied the fertile lands of Silesia, spread throughout Bohemia and parts of Hungary and pioneered the opening up of Transylvania. Finally came the knights, ostensibly to convert the pagan Lithuanians to Christianity, but also to carve out new territories along the Baltic.

Several military orders were formed which in 1237 united as the Order of the Teutonic Knights of Livonia. This heralded German domination of the Baltic and the maritime communities soon founded an association, or Hansa [4]. The Hansa played the predominant role culturally and politically in northeastern Europe. But German rule did not accompany the migration; apart from Polish friction with the Teutonic Knights, relations with the new settlers were generally friendly and mutually profitable.

Later German migration

The eastward advance of the Germanic peoples had been checked after 1002 short of Pomerania, Poland and Hungary [Key], after

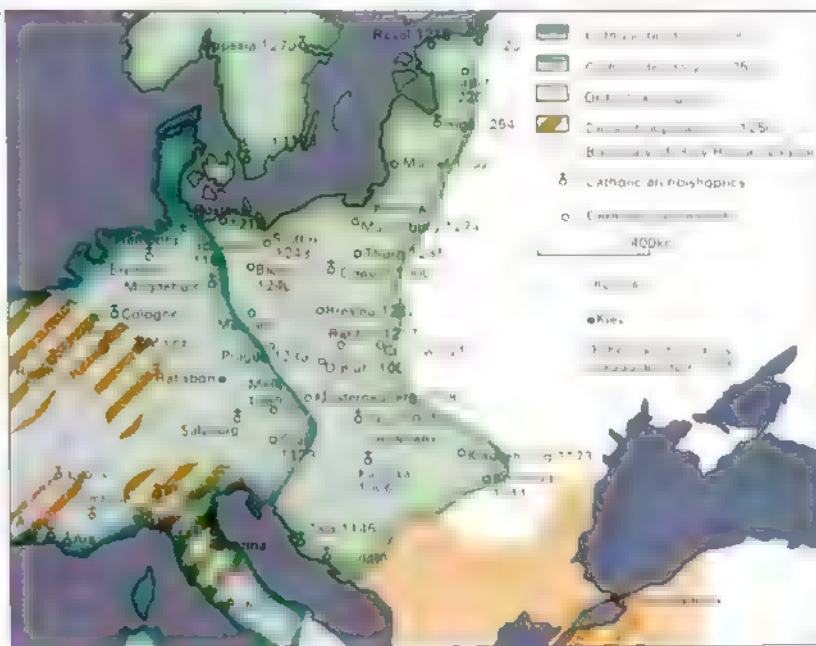


5 Marienberg, with its famous castle was the capital of the Teutonic Knights in Prussia. The knights, founded as a noble military, charitable and missionary organization in 1190

abandoned work
in the Holy Land
and settled on the
Baltic coast to
enforce the con-
version of the pagan
Prussians. In 1309
they established
their headquarters
at Marienburg.

7 The advance of Christianity in Eastern Europe (1000-1250), and the conversion of the Slavs and Magyars, was quick on a superficial level, but thorough Christianization took centuries. First came

the German or Byzantine missionaries, whose real purpose was to convert the rulers and establish bishoprics, only later in the twelfth century did Christianity begin to reach the rural communities



The end of Anglo-Saxon England

Edward the Confessor (c. 1002–66) lived in exile in Normandy for 25 years during the reigns of Canute and his sons and succeeded to the English throne in 1042. His mother, Emma (died 1052), was a Norman and although there may not have been much love lost between Edward and Emma, he probably thought of himself as at least half Norman. He brought Norman followers with him to England, including Robert of Jumèges (died c. 1055) whom Edward made Archbishop of Canterbury in 1051 despite opposition from the earls. In a sense, therefore, Edward began the process, completed by William, of a transition from an English to a Norman society. Even royal castles, so much a part of William's conquest, were introduced in a primitive form by Edward.

The rise of Godwin and Harold

Edward's reign was constantly overshadowed by the power of the family of Godwin (died 1053). Under Canute England had been divided into a few large earldoms, not unlike the old Saxon kingdoms. This consolidation produced a new and dangerous

political situation, with a few earls controlling great territorial interests [2]. Much of the history of Edward's reign concerns quarrels between himself and these earls, and between members of the Godwin family, which controlled most of southern England.

Edward married Edith the daughter of Godwin, in 1045, and it seemed at first that Godwin controlled the country. But in 1051 the earl refused to obey Edward's order to subdue Dover, a town in Godwin's own earldom where disturbances had taken place. Open conflict was averted by Siward and Leofric, the other important earls, who supported the king. Edward exiled Godwin's entire family, but the following year Godwin returned, secure in his authority within his earldom, where his territorial control was much greater than that of the king. The mutual dependence of king and earl had been made apparent.

Towards the end of his reign Edward turned increasingly towards thoughts of piety and he left much of the detail of government to Harold (c. 1022–66), Godwin's son. At some time Harold visited France and fell into

the power of William of Normandy (1027–87), who extracted from him an oath of support for his own claim to the English throne. Edward and Edith had no children (the king's reputation for piety derived from a legend that he never consummated his marriage), but towards the end of Edward's life an English candidate for the throne appeared, Edward the Aetheling, son of the Confessor's brother. The Aetheling died soon after his return from exile (c. 1059), leaving a son, Edgar (c. 1050–c. 1130), too young to be a serious candidate for kingship, and a daughter who later became St Margaret of Scotland (died 1093). So when Edward died in January 1066, Harold [4] proclaimed himself king and was crowned in Westminster, supported by Edward's council.

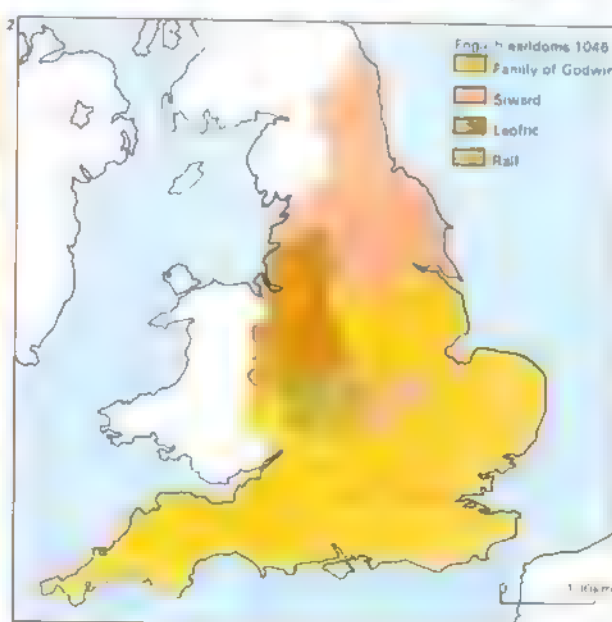
The Norman invasion

Since the death of Canute, Norwegian and Danish rulers had been awaiting an opportunity to renew their claim to England. In 1066, after defeating the Danes, Harald Hardrada (1015–66) of Norway set sail for England, with the support of Tostig, the son of

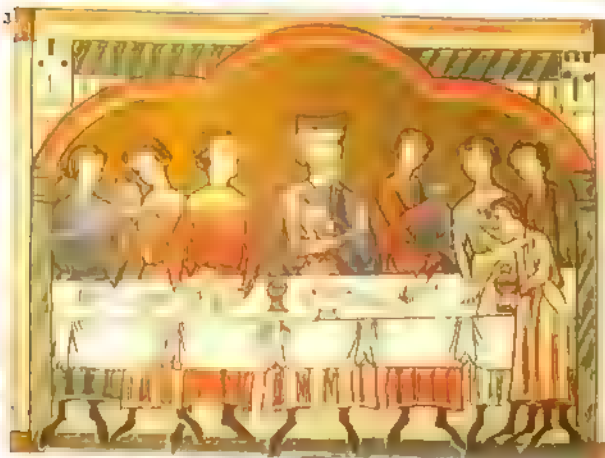
CONNECTIONS

See also
Norman and Angevin
England
Western Europe,
eleventh century
1066–250
Norman conquest of the
British Isles

1 Edward the Confessor was the last truly English king of England, because Harold was Danish by descent. The son of Ethelred II, he ruled over a court of Danes, Englishmen and Normans. This cultural mixture arose from the wealth and strength of the English throne in this period, which encouraged the ambitious Norsemen to invade the country. It was only the simultaneous attack on England on two fronts in 1066 that brought the downfall of the Anglo-Saxon kingdom. Although not such a great landowner as William became, Edward still commanded great authority through the veneration in which the monarchy was held.



2 The great earldoms of Edward's reign were a result of Canute's policy of land distribution. Godwin himself had been an obscure soldier who rose to prominence in the service of the Danish king. In many areas, particularly Sussex and the west, he held considerably more land than the king, and the local thegns showed as much loyalty to him as to the king. Leofric and Siward, the other leading earls of Edward's reign, were unwilling to see their countryman Godwin acquiring unlimited power over the king. The distribution of earldoms on the map shows the power of the House of Godwin at its peak in 1061.



3 Edward (centre) quarrelled with Godwin (right foreground) in 1051 over the latter's apparent disregard for his son Sweyn's irresponsibility in 1046–9. But in 1052 the Earl Godwin

was able to return virtually unopposed because Edward's policy of encouraging Normans at his court was unpopular (it was at this time that Edward is said to have promised the throne

to William of Normandy). Although Godwin died in 1053, Harold was able to take advantage of this sympathy and take virtual control of the country until the death of Edward

4 Harold, the son of Godwin, was accepted as king on Edward's death, although Edward had probably offered the throne to William of Normandy, and Harold had sworn to support him.

5 Stigand, an infamous pluralist, was Archbishop of Canterbury in 1068, but William, an ardent supporter of Cluniac reform, replaced him with Lanfranc, who introduced feudalism to the Church.



Godwin. The English king decisively defeated his northern enemies at Stamford Bridge but then had to march from York to Hastings to meet the second enemy, William, who had landed at Pevensey on 28 September to assert his own claim to the throne. William brought new military skills to England, using ranks of lancers on horseback against the traditional English foot-soldiers fighting with axe and sword. Nevertheless, the Norman victory at the Battle of Hastings fought on 14 October, was not a foregone conclusion and owed much to the exhaustion of the English.

England after the Conquest

The Battle of Hastings is depicted on the Bayeux tapestry (Key, 5, 7), a long embroidery completed c. 1080, perhaps commissioned by Bishop Odo of Bayeux (c. 1036–97). William refused to be crowned by Stigand, Archbishop of Canterbury (died 1072), whom he replaced in 1070 with Lanfranc (c. 1005–89), an Italian monk. After a rebellion in Exeter in 1067, and in the north in 1069, drastic measures were taken to bring

the country under control [7]. There were a few pockets of resistance [8] but much of the English nobility had died in battle; their heiresses often married Norman barons.

A uniform system of land tenure was imposed, all land being distributed in return for specific military services, which facilitated long-term garrisoning of the castles that defended Norman rule [6]. In order to establish precisely the obligations of his tenants, William ordered a survey to be made of his new possessions – the Domesday Survey, completed in 1086.

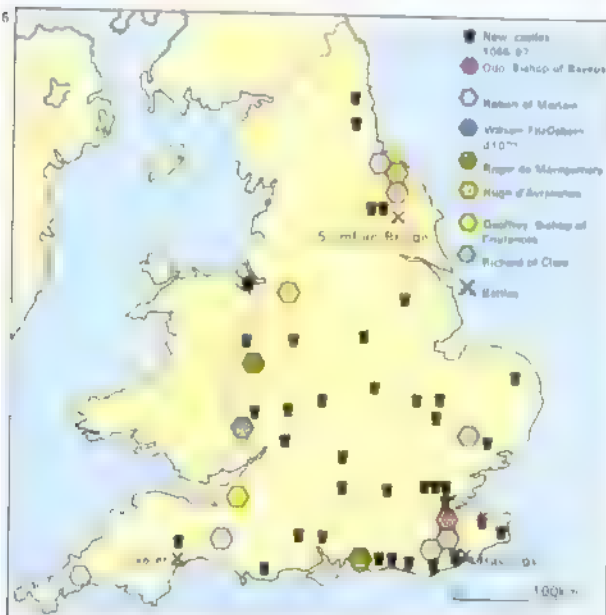
Much of the Anglo-Saxon way of life disappeared with the ending of free land tenure for the thegn and ceorl. Some legal institutions continued in a debased form, but art and literature, which had been flourishing at that time, died out. Fifty years after the Conquest, the distinction between English and Norman had been lost. The Conquest gave new vitality to the towns, reorganized the Church and brought England closer to the culture of Europe, in many ways it can therefore be considered the beginning, as much as the end, of an era of English history.



Herold was killed at Hastings either by an arrow in his eye or, as is more likely by being cut down by a Norman horseman. His army of about 7,000 men consisted of both the traditional Anglo-Saxon king's band of followers

and the fyrd, or local militia comprising less well trained soldiers who were called out to deal with emergencies. After the battle William advanced swiftly to London before any significant new opposition could be organized.

ized around the last remaining member of the English royal family, Edgar the Aetheling. William founded a monastery on the site of the battle, a symbol of the unity of political power and religious duties for a Norman



6 William allocated the land of England in such a way as to allow his invading forces to control the country. He built castles in the towns, and gave estates to his followers, who were spread throughout the kingdom to prevent any of them from gaining local power as Godwin had done. The south of England, the most strategically vital area, remained in the hands of a few trusted friends. But he gave the lands of more than 2,000 thegns to fewer than 200 Norman barons, and so radically centralized the power structure of England. William kept large estates for his own use. The introduction of feudalism was perhaps the most dramatic effect of his rule.



7 The revolt of the north, in 1069, was punished by William with such severity that the Domesday Survey, of 20 years later, shows the most affected areas – Yorkshire and Lancashire – as still far

less prosperous in agriculture than the rest of the country. Such brutality and the force with which the Normans cleared the centres of towns to build castles to oversee the populace,

meant that many Englishmen hated the invaders. Although the Normans ended the Anglo-Saxon institution of slavery they reduced freemen to the level of serfs and cut the authority of the common law.

8 Hereward the Wake was a semi-legendary English thegn who earned an opposition to William from a hideout in the Fens of East Anglia. Before the Conquest he had held significant estates in Lincolnshire. But opposition to the Normans as violent as shown in this 19th-century illustration was not common. Most English accepted the new king and by the early 12th century it was common for a man of English descent to become a royal official such as a sheriff. At the end of the story of Hereward, it is said that he was pardoned by the king. Only two Englishmen survived the Conquest as important landowners; others became managers of their old estates.



9 The late Anglo-Saxon stone carving at Kilpeck Church, Herefordshire, is one of the few examples of an English cultural survival after the Conquest. In most other respects, a sharp change occurred after 1066. Norman French and Latin became the official languages and vernacular literature died out, as learning became more completely the province of the Church, and secular literacy became less common. But the Anglo-Saxon Chronicle was still written until the early 12th century. The Church itself was revitalized from the torpor into which it had fallen since 1020. Stone architecture on a massive Romanesque scale became common for churches and castles.

Norman and Angevin England

Between 1050 and 1100 Europe was transformed by the conquests of a warrior people from a section of the north French coastlands, the Normans. They overran England and southern Italy, and settled in Scotland, Wales, the Byzantine Empire and (after the first Crusade) the Levant. These extraordinarily successful people were a closely interrelated group of families, several of them related to the Viking-descended dukes of Normandy. They took the art of cavalry warfare further than any of their contemporaries and crystallized as a distinct group under the leadership of Duke William I (1027-87), the foremost general of his age.

The conquest of England

The Normans' greatest achievement was the conquest of England, which because of its distinctive civilization, advanced organization and great wealth was the richest prize in Europe for soldiers of fortune. Normans had begun to settle there before 1066, but the transformation of England into a Norman kingdom required the ambition of William, an adventurer like the rest. The invasion of

1066 was a corporate enterprise, ostensibly to establish William as the heir of King Edward the Confessor, but really to win the Normans new fortunes. The narrow victory of Hastings, the slow advance from Canterbury to York, and the rewarding of his companions with wide estates was only just successful, for his success created in the midst of a living society an uneasy circle of adventurers [1], in some ways less civilized than the surrounding people.

Although William hoped to rule like an Anglo-Saxon king, his enemies - King Philip of France, Malcolm of Scotland, Canute of Denmark, in league with dissident Englishmen and rebellious Normans - imposed a state of virtual siege on his dominions and forced him to original expedients, critical for the future. These included the elaborate system of military service in return for land, out of which the striking solidarity of the Anglo-Norman state was born [4], the series of mighty castles - at the Tower of London, Wallingford and Colchester, in which the grandeur of Norman ambitions can still be seen [5] - and the detailed survey of

English wealth made by his order in 1086 the Domesday Book [2]. The Normans transformed England, not least by reordering the diocesan structure of the Church.

Under the Norman Empire

When William died, in 1087, England and Normandy were ruled separately by his sons William Rufus (r. 1087-1100) and Robert of Normandy, but so strongly were their societies united that within a few years they were again governed by a single ruler.

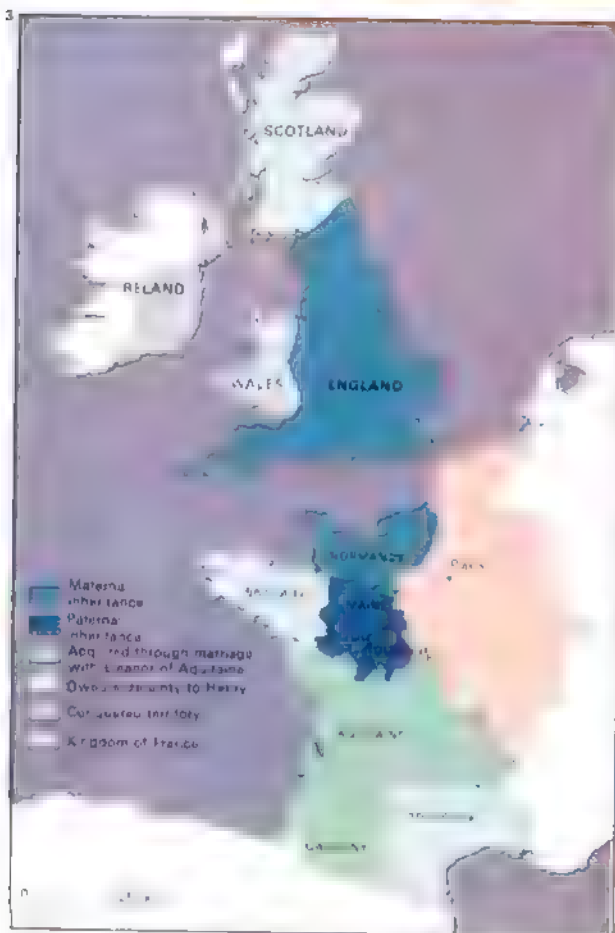
The Norman Empire, ruled by Rufus's successor and Robert's supplanter Henry I (1068-1135) and his descendants, held together until 1204. For the great Norman families, England was a colonial El Dorado but Normandy was "home". Rarely have English and continental history been so intertwined, with marked effect on English civilization: Englishmen such as Adelard of Bath and John of Salisbury contributed to the European revival of learning and science, the great English cathedrals, from Durham at the beginning of the twelfth century to Canterbury at the end, were designed by the most

CONNECTIONS

See also

The Vikings
The end of Anglo-Saxon England
The king and the church
Feudalism
The emergence of the state
The Norman Conquest
The Domesday Book
The twelfth-century renaissance
The church in medieval England
Romanesque art of the twelfth century

1 The Conqueror and his companions, as portrayed in the Bayeux tapestry, demonstrate the esprit de corps of the Norman leaders, which was one of the secrets of their success. Bishop Odo of Bayeux (on the Conqueror's right), half-brother to William, was probably highlighted because he commissioned the tapestry.

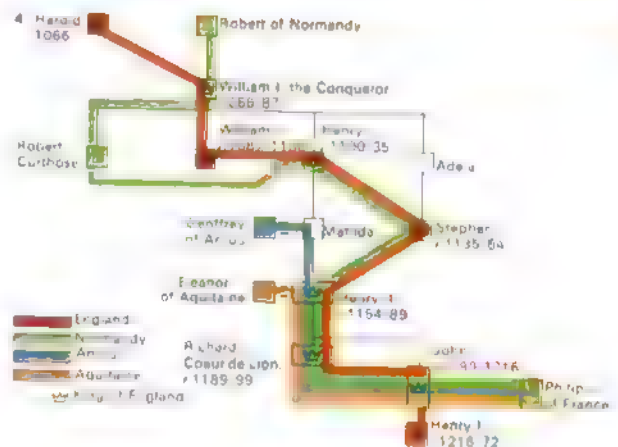


2 The Domesday Book was an astonishing monument to masterful and inventive rule. The survey was ordered by William in 1085 and completed in six months. Its precise purpose is uncertain, but it constituted a record of the wealth of the king and his principal subjects of stock, of the land and the condition of the peasants who cultivated it. Terms of commissioners gathered the necessary information from jurors. This particular page describes a manor in Somerset.



3 The Norman Empire spread farthest under Henry II, partly because of the union, via Matilda of Norman and Angevin domains, but largely through his marriage to Eleanor of Aquitaine.

4 The network of Norman power was gradually extended by linking powerful families in marriage alliances, although civil war was needed to bring the Angevins to the English throne. England alone was acquired through conquest.



advanced French builders; an English scholar, Nicholas Breakspere, was the first and last Englishman to become pope (as Adrian IV from 1154 to 1159), and Norman French remained for three centuries the language of the English courts and society.

England's growing prosperity

It was also a period of unprecedented prosperity for England, apparently based on sheep. England was the main supplier of wool to the Flemish textile industry. Many landlords, especially the monasteries, owned vast estates. They were progressive farmers opening up the fens and the Yorkshire uplands. English towns [6] such as Norwich, Oxford and Salisbury developed rapidly, usually around existing episcopal seats and castles. Flourishing markets for agricultural products needed special protection and for the first time there was a definite movement towards self-governing guilds.

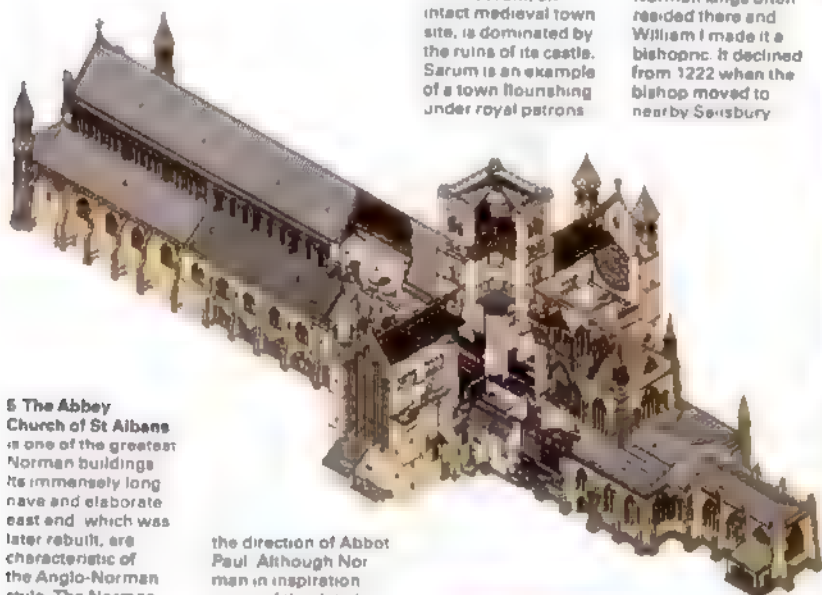
Norman England was also remarkably advanced in the arts of government and a series of careful monarchs (broken only by the disputed succession between Henry I's

daughter Matilda and his nephew Stephen of Blois) sought to marshal England's resources rationally. On Stephen's death, Matilda's son Henry II of Anjou (reigned 1154-89) governed with professional skill, using men who were prepared to experiment with legal forms, establish precedents for consistent action and keep records as a matter of routine. The exchequer, the jury and the common law courts are institutions that began their organized life in his reign [7].

Their significance, however, lay in the future. At the time there were many signs that the now unwieldy empire was breaking up [3]. Its French inhabitants increasingly looked to the king of France, and the last years of Henry II's reign were disrupted by rebellions, in which his sons joined. After his death the empire was held together by the sheer military genius of his son Richard I (reigned 1189-99), but Richard's brother John, who was no general, lost it forever in only five years [8]. By 1204, England had once more become a separate kingdom, enriched and transformed by a century and a half of Norman and Angevin rule.

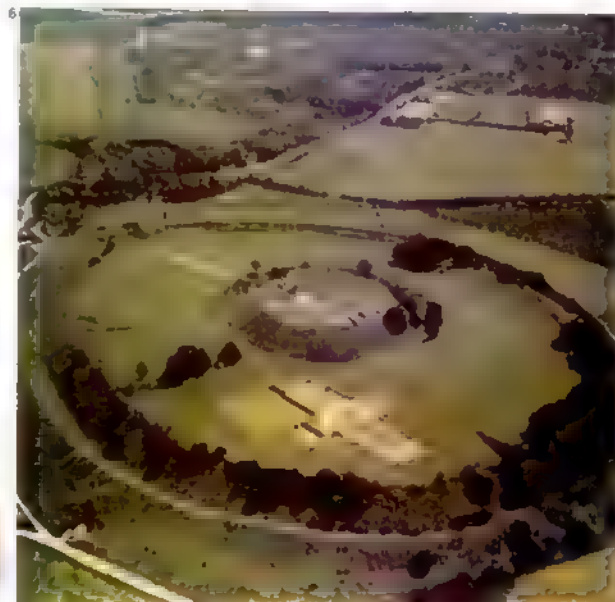


Orford Castle in Suffolk, built by Henry II, was typical of the many stone castles that were constructed in every part of England. Control of these castles was the first requirement of effective authority: they could be captured only with the expenditure of much time and effort. The earliest was the Conqueror's wooden prefabricated castle set up on the beach at Hastings before the battle. Henry II showed characteristic inventiveness in the design of Orford, built between 1166 and 1172 to control the Alde estuary and the Suffolk hinterland. Its keep is polygonal outside and cylindrical within: its services are in the outer shell.



8 Old Sarum, an intact medieval town site, is dominated by the ruins of its castle. Sarum is an example of a town flourishing under royal patronage.

Norman kings often resided there and William I made it a bishopric. It declined from 1222 when the bishop moved to nearby Salisbury.



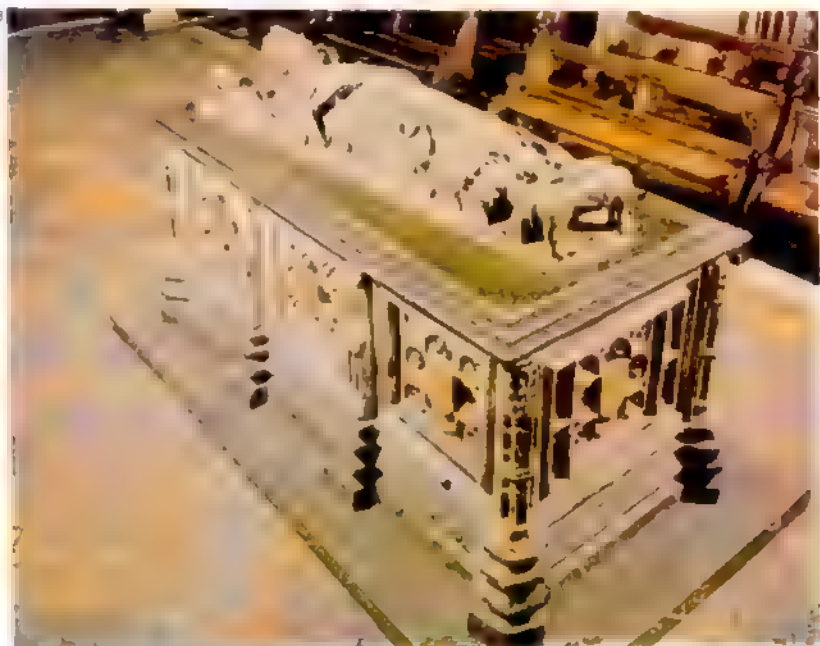
5 The Abbey Church of St Albans is one of the greatest Norman buildings. Its immensely long nave and elaborate east end, which was later rebuilt, are characteristic of the Anglo-Norman style. The Norman part (the central tower and most of the nave) was built, 1077-93, under

the direction of Abbot Paul. Although Norman in inspiration, many of the details are Anglo-Saxon since rebuilding had been planned before the Conquest.



7 The Great Seal of Henry II, despite its use in the orderly life of the realm, bears a warlike image. With the aid of capable

ministers, Henry transformed the existing customs into a systematic body of law and an efficient administrative procedure.



8 King John was buried at Worcester Cathedral after a reign that provoked hatred and distrust among most of his subjects, principally because he pressed over the dissolution of the Angevin Empire. After 1204 when he lost most of his continental possessions, he devoted himself to their recovery. Most of the troubles of his reign were caused by the need for heavy taxation when prices were rising sharply. Abortive campaigns ended with the rebellion of the barons and the imposition on him of the Great Charter at Runnymede in 1215. After the sealing of the charter the Norman Empire had to make way for the emergent English nation.

Islam in Europe

The overthrow of the Visigothic state of Iberia in AD 711 by Berber forces recently converted to Islam (further penetration into France was stopped by Charles Martel in 732) was an event unforeseen by the Arabs of the East. The distance of Spain from Damascus was such that these forces could not have expected to enjoy the full fruits of their conquest.

Independence from the East

In the early years the governors of Al-Andalus, as the Muslim-controlled area of the Iberian Peninsula was called, were nominated, however, by the caliphs in the East and revenue from taxation did find its way across the Mediterranean. No such benefits were forthcoming after AD 756 when the Umayyad family achieved pre-eminence among the small number of Arabs (probably fewer than 20,000) who had settled in the peninsula. This family retained supremacy in Córdoba [2] for nearly 300 years, maintaining from the outset political independence from the East.

Although there was an increasing inci-

dence of conversion to Islam among the indigenous population during that period, the Umayyads of Córdoba could seldom command the loyalty of all Muslims in the peninsula. It was only in the tenth century, under Abd ar-Rahman III, who declared himself caliph in AD 929, that hitherto semi-autonomous regions acknowledged, some times after protracted conflicts, the supremacy of the Umayyads. The ensuing unity gave Al-Andalus a strength that enabled the state to brush aside sporadic forays by the kingdoms of the north and even, on occasions, to arbitrate in the dynastic disputes of these kingdoms. Profitable treaties were struck with some of the small North African dynasties and trade was established with the German and Byzantine empires.

Importance of Córdoba

Córdoba became the undisputed capital of western Islam and a magnet for scholars [9], poets and craftsmen who assembled there from throughout the Islamic world. A palace was built in the cooler foothills of the nearby Sierra Nevada where the caliph resided and

conducted affairs of state, while in Córdoba itself successive additions imparted increasing splendour to the Great Mosque.

Unity in Al-Andalus proved, however, to be difficult to maintain and as a result the caliphate was formally dissolved in AD 1031. The subsequent fragmentation of Al-Andalus into some 30 city states, all jealous of their own independence and covetous of the territories of their neighbours, occurred in the eleventh century when Christians from beyond the Pyrenees, actively encouraged by the pope, became involved in the internal affairs of the northern Spanish kingdoms.

The reconquest of Muslim Spain

The reconquest of Muslim Spain may be considered in two phases, before and after the capture of Toledo in 1085 [6]. Before this date there is scant evidence from Latin or Arabic chronicles that the gradual occupation of territories to their south by the Christian states was either premeditated or concerted. This settling of sparsely populated areas indicated a colonial intention rather than any attempt to wrest territory away from

CONNECTIONS

See also

| | |
|---|--|
| 1 | Attributed to Alfonso the Wise (1221-84) the <i>Cantigas de Santa Maria</i> is a collection of 400 songs recounting a variety of miraculous and legendary incidents connected with the Virgin Mary. This miniature from a contemporary manuscript depicts the salvation from a storm of merchants bound for Acra, their successful business transactions and the homage they paid to a Marian shrine. |
| 2 | The Great Mosque of Córdoba, begun in the 8th century, was later enlarged and embellished and is a lasting testimony to the magnificence of Islamic civilization in Spain. By 1031 the city had been devastated by civil strife and lost its place of eminence. The mosque survived, was consecrated to Christianity after the reconquest (1236), and had a church built in its centre in the 16th century. |
| 3 | A commentary on the Apocalypse of St John the Apostle by Beatus of Liebana shows one remarkable side of the culture of Islamic Spain. Christian manuscripts were still copied and studied in monasteries, but their style shows an enormous Islamic influence. Thus in this illumination to the text (which was done at Gerona in about 975) Jerusalem becomes a Mosarabic (Spanish Mozarabic) city with the horseshoe arches to the first floor windows that are the hallmark of the style. |
| 4 | Rodrigo Díaz de Vivar (c. 1043-99), left known as 'El Cid', was a Castilian knight estranged from the king, Alfonso VI. His exploits were widely celebrated and resemble those of a present-day mercenary. Supported by a force of faithful Castilians he moved freely in Muslim-held territory. His crowning achievement was the capture of Valencia in 1094 which effected his reconciliation with the Castilian king. |
| 5 | El Cid was born at Vivar, Burgos, where these monuments mark the site of his ancestral home. The Spanish epic <i>Poema de Mio Cid</i> portrays him as a noble Christian hero, loyal to his king despite being banished from Castile. Arabic sources emphasize his cruelty. Many ballads celebrate his achievements as an invincible knight and it has become difficult to distinguish the Cid of history from the Cid of legend. |



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Muslim control and it achieved very little.

Lack of any effective political cohesion among the Christian states was the main obstacle to territorial expansion at the expense of the Muslims. The Duero and Ebro valleys remained the approximate boundaries until Alfonso VI's definitive occupation of Toledo in 1085 altered the map of the peninsula by placing a permanent Christian wedge in Al-Andalus. From this time the reconquest gathered momentum and the religious factor, hitherto largely dormant, now emerged. The confrontation between Santiago and the Bible for the Christians and Mohammed and the Koran for the Muslims was evident in the clashes between the Almoravids and Almohads, Berber tribes from northern Africa, on the one hand, and the forces of Castile and Aragon on the other.

After suffering reverses, notably at the battle of Alarcos in 1195, the forces of Castile, Aragon and Portugal, usually acting independently of each other, reduced the power of Al-Andalus to some 400km (250 miles) of coastline from Gibraltar eastwards. The Nasrid kingdom with its capital at

Granada lasted 250 years by dint of shrewd diplomacy, judicious alliances contracted from time to time with both Castilians and Muslims from North Africa, trading links with Genoese and Catalan merchants and geographical barriers, such as the Sierra Nevada, that discouraged assaults. The Alhambra, built in the fourteenth century, is the major monument of this bastion of Islamic civilization in a Spain whose political orientation was by then the same as that of the other Western European powers.

Hostility towards the Muslims and reverence for the Islamic cultural tradition were not incompatible in the new Spanish state. While wars were being waged in frontier zones, Toledo, like Norman Sicily [8] became a centre from which Greek and Arabic learning was transmitted to Western scholars. Churches in ornate styles were built by Muslim craftsmen, kings were familiar with Arabic and yet the power of Islam in Spain and Sicily was on the wane. The reconquest was a major political achievement, but the vestiges of nearly 700 years of Islamic presence in Spain were indelible.

KEY



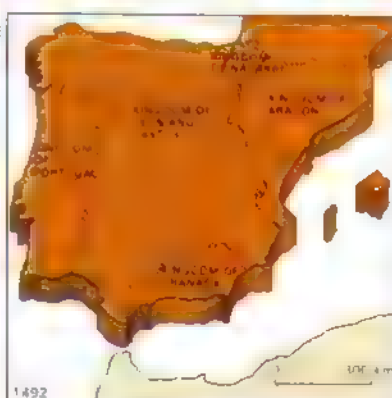
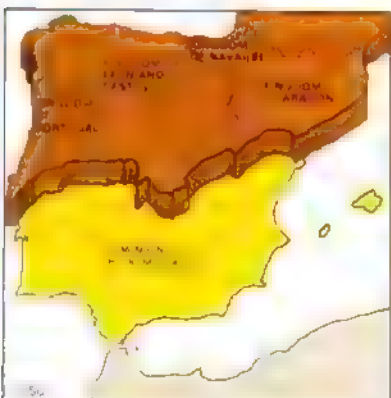
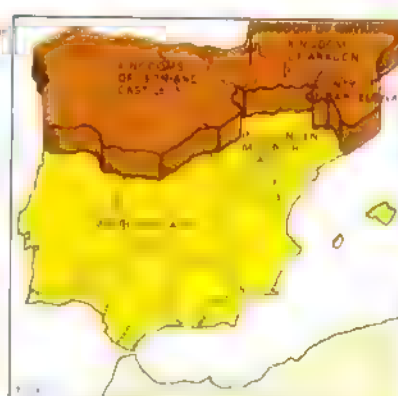
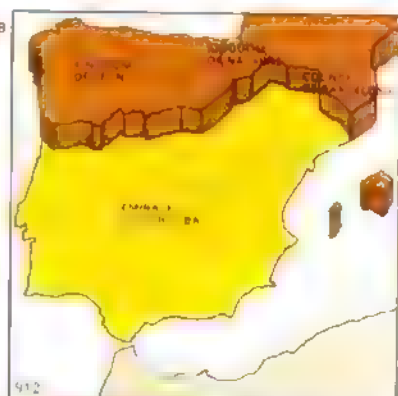
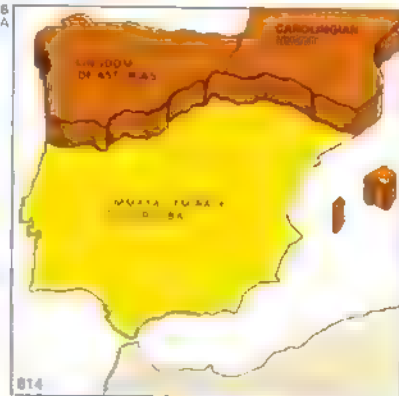
The castle of Manzanares el Real, to the north of Madrid, was constructed near the site of an earlier fortress during the second half of the 15th century.

In the elaborate Mudéjar and late Gothic styles it was the residence of the Mendoza family, whose members were granted the marquessate of Santillana and

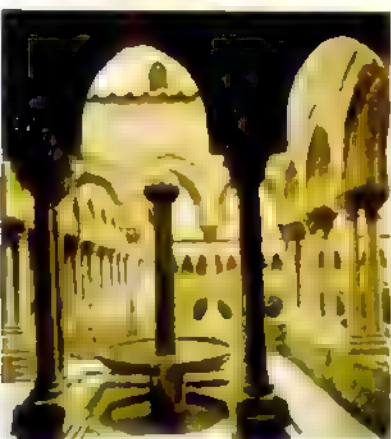
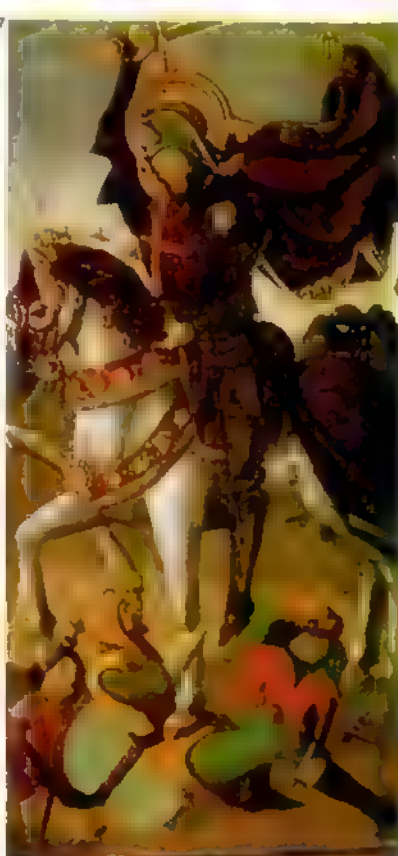
the dukedom of Infantado for distinguished political and military service. This brought them material enrichment and increasing prominence in Castile's affairs.

Christian territory
Muslim territory
Other boundaries

6 The boundaries between Christian and Muslim Spain altered little until the capture of Toledo (1085). The reconquest achieved its greatest momentum in the 12th and 13th centuries when the crusading zeal was at its height. The small kingdom of Granada, however, survived until 1492.



7 St James the Elder (died c. 44) is the patron saint of Spain. His body was miraculously discovered in the 9th century in the remote province of Galicia where the city of Santiago de Compostela now stands. The shrine became a centre of pilgrimage for Christians, thus opening Spain to European influences, and the Spanish Christians acquired a warrior saint who would lead them into battle against the Muslims.



8 Byzantine and Arabic features are prominent in Monreale Cathedral, built by the Norman William II (1154-69) who challenged Muslim political and religious supremacy in the Mediterranean.

9 During Raymond of Toledo's archbishopric (1125-51), large numbers of Arabic works were translated into Latin by scholars from all over Europe. Scientific and philosophical treatises were thus introduced to western Christendom.



Romanesque art of the 11th century

The term 'Romanesque' was borrowed from literary sources by nineteenth-century antiquaries to describe pre-Gothic architecture, implying that it reflected that of Rome. Today it is applied to the art, and more especially the architecture, of the eleventh and twelfth centuries. The political and economic instability of Western Europe after the abandonment of the Western Roman Empire accelerated the decline of widespread patronage of the arts. Despite the glories of the artistic revival under the emperor Charlemagne and his successors, and personal patronage in more localized centres, it was only the re-establishment of strong governments and the parallel reforms within the Church c. AD 1000 that caused the arts to revive throughout Europe.

Patronage of the arts by the Church

Land was the primary source of income in the Middle Ages, and the power of landowners was supreme. The Church readily accepted gifts of land and became a great feudal landowner, owning as much as a third of France in the eleventh century. The other source of

income was the offerings of the faithful at saints' shrines [7], and pilgrimages to them were common for people of all classes.

Although Rome and Santiago de Compostela in Spain were the major destinations, visits to many other centres were encouraged. The shrines contained holy relics which were believed by many to have great healing powers. To display them in safety was an incentive for rebuilding a church. The creation of monastic orders – particularly the Cluniacs – to protect these relics and the founding of monasteries to administer both spiritual and temporal affairs also encouraged building.

The Church therefore became the greatest patron of the arts, building religious houses, decorating them with paintings [5] and hangings and filling them with altars, candelabra and screens made of wood or iron. As religious services grew more elaborate, more manuscripts and religious artefacts were acquired. Stone castles and houses from this period are rare, which may indicate that they were not built in great numbers or, more likely, were soon replaced

by better and more comfortable structures. The creation of a church for both pilgrim and monk was the builder's main problem.

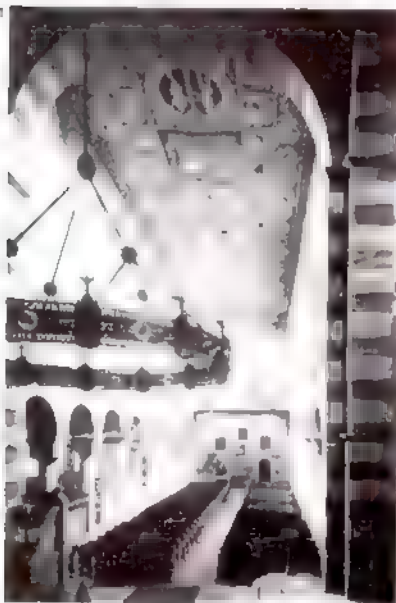
Romanesque churches of two forms

Two basic church types were current in Western Europe: the wooden-roofed, aisled basilica, and the vaulted small-scale martyrion (erected on a site of religious significance). The former had been taken up by the early Christians in Rome and continued to flourish with little development in central Italy up to the Gothic period. When Charlemagne and his successors sought to revive the Roman Empire from c. AD 800, it was this type of church they copied in Germany.

These churches had apsidal choirs, sometimes at both ends, with west fronts forming multi-storied masses, called *westworks*, and they were crowned at each end with towers. Linking these complex elements was the long nave, with expanses of flat wall between the ground-floor arcades and upper windows. These areas were painted or hung with embroideries. All Romanesque churches were a mass of colour, now lost.

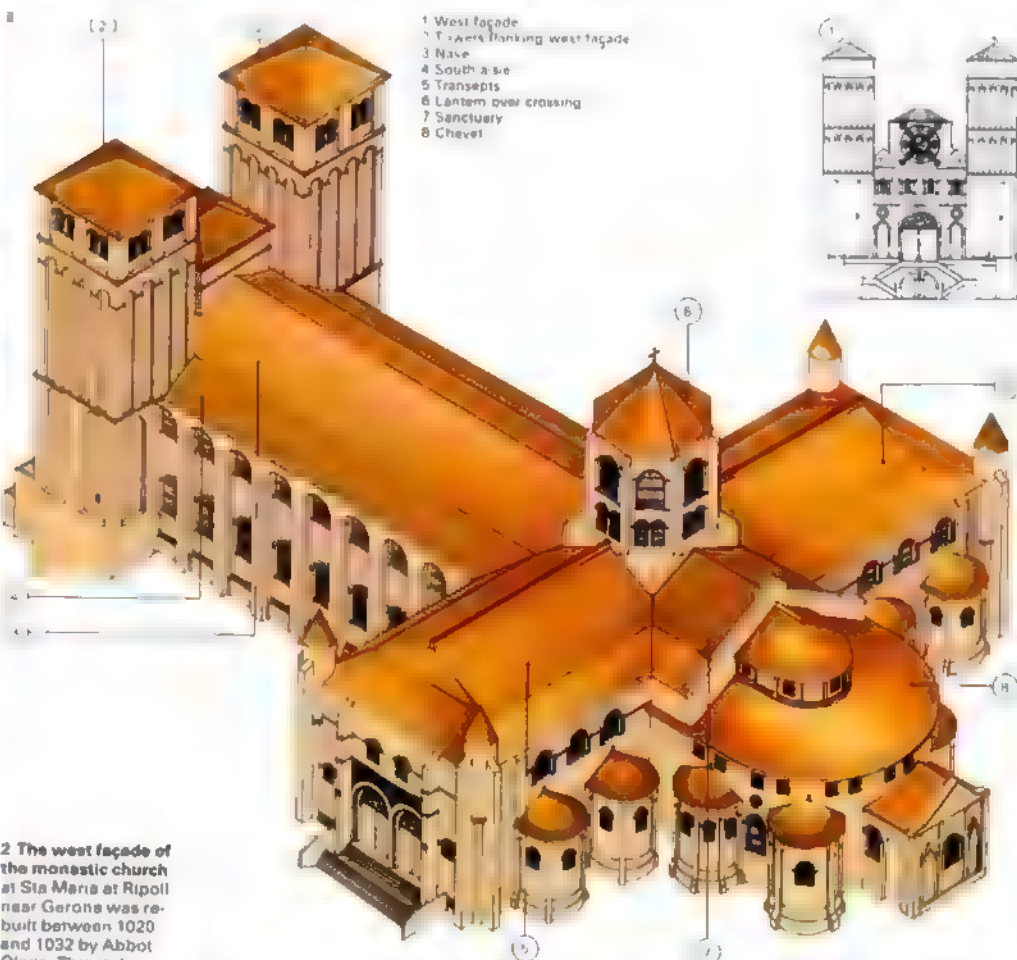
CONNECTIONS

See also
Romanesque art of the
12th century
Triumph of the Church
The emergence of
Gothic art



1 The nave of St Michael's, Hildesheim (1000–33) (looking west) has a 12th-century wooden ceiling and the original suspended candelabrum to light the eastern crossing. The church has no

vaults, in the Carolingian tradition, and so is wide and well lit. The solid walls of the elevation are now dull and monotonous, but they were once brightly painted, probably to emphasize the width



- 1 West façade
- 2 Towers flanking west façade
- 3 Nave
- 4 South aisle
- 5 Transepts
- 6 Lantern over crossing
- 7 Sanctuary
- 8 Chancel

2 The west façade of the monastic church at Sta Maria at Ripoll near Gerona was rebuilt between 1020 and 1032 by Abbot Olibert. This style of church can be seen throughout southern Europe and is distinguished by the use of small rubble building material, the covering of all interiors with vaults and, particularly, by the arched corbel table running around the summit of all external walls – seen here on the towers and gable.

3 The cathedral of Santiago de Compostela in Spain is the reputed burial place of the apostle James and was the goal of vast numbers of pilgrims from all over Europe during the Middle Ages. Four main 'pilgrimage roads' from France led a single route through northern Spain, each road being marked by an

important shrine. The five greatest churches built between 1050 and 1100 were at Tours (St Martin), Limoges (St Martial), Conques (St Foy), Toulouse (St Sernin), and Compostela. They have similar plans and were influential in spreading the concept of the great Romanesque church – a large, cross-shaped

building with a towered main western entrance [1, 2], galleries running around the interior at an upper level and emphasis on the east end with many protruding apses for altars. The nave [3] had altars, but served mainly as a congregating area. Each altar was dedicated to a different saint and had a reli-

quary on or within it. Candelabra, screens and hangings were placed around the altar (it was this profusion of fittings that fed accidental fires). This is the third church on the Compostela site, probably built by French masons and finished c. 1125, although many alterations have since been made.



In central Italy, no such evolution took place. Marble panels were often used instead of wall-paintings in Tuscany, as at San Miniato al Monte, Florence, and bell-towers and baptisteries were usually completely detached, as is seen most clearly at Pisa.

The martyrium type is not so easily identified as the Roman, although its distribution corresponds to the extent of the Roman Empire in the fifth century – that is, north and east Spain, the southern half of France, north Italy, Yugoslavia and Asia Minor. Its roots lay in the provincial Roman buildings, built of local stone or brick rather than the faced stone blocks of imperial monuments. Although limiting size, this material facilitated the vaulting of the narrower spans, in contrast to the open wood roofs of the wide basilica-church.

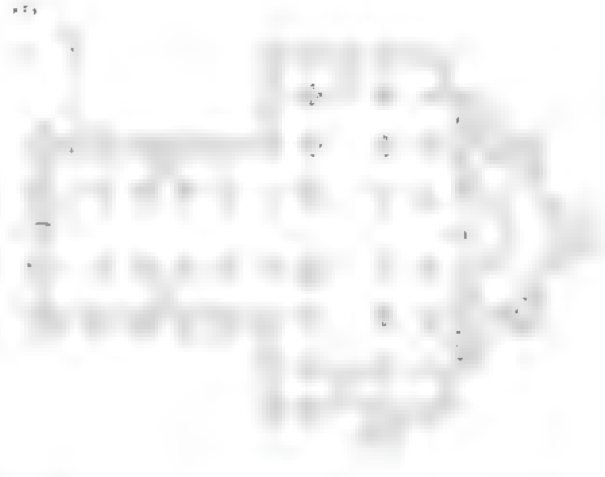
As a consequence, however, the mason became a craftsman in stone rather than a sculptor, and any architectural sculpture, such as capitals, was often crude and carved in relief rather than deeply cut into the stone. Apart from the materials used, the decorative system of thin pilasters (ornamental

rectangular columns) rising to a corbel-table (a line of projections running along under the eaves) clearly distinguishes this work.

Romanesque churches in provincial France

These two church types merged, and after much experiment (especially in France) two basic plans evolved, which were modified in each region to suit local conditions. The great pilgrimage churches [3] are typical of the "ambulatory" plan, which allowed pilgrims to see the relics behind the high altar – or beneath it in a crypt – without disturbing the monks at their worship [Key].

Churches associated with the Cluniac order, especially in Burgundy, used parallel apses, that is, a series of semicircular or octagonal recesses of varying heights and depths flanking the main monk's choir. Unlike the ambulatory layout, this plan probably encouraged masons to vault the main areas as more solid walls were available for support. Lighting such vaulted spaces was a difficulty that was not satisfactorily overcome until the widespread use of cut-stone (ashlar) in the second half of the twelfth century.



This ground plan of Sainte-Foy, Conques, France (c. 1050–1110) allowed for the needs of pilgrim and monk alike. The former would enter at the west [1] and

go along the aisles [2] to the ambulatory [3] to look at the principal shrine in the sanctuary [4]. The monks would enter the church by the transept [5]

from the cloister (around which the monastery was grouped), and then go in procession to their choir behind screens or to minor altars [6].



4 The nave at St Etienne, Nevers (c. 1070), looking east towards the high altar. A narrow row and dark by the need to support the stone barrel vaults. Behind the middle range of arches a half barrel links the main elevation helping to support the main span and allowing for small upper windows. The wall shafts divide the elevation into vertical rather than horizontal bay units.



5 In the church of S. Angelo in Formis, near Capua (rebuilt after 1072), this picture shows Christ touching the eyes of the blind man, who then washes at the well and sees again. Spots on the cheeks and angular drapery patterns show the Byzantine influence. The paintings illustrate scenes from the Old and New Testaments and cover the whole interior of the church. Such a complete cycle is rare today.



6 The marble lintels at St Genes des Fontaines, French Pyrenees (1020–21), show the enthroned Christ (B) supported by angels. Saints (A) flank the figure. It is one of the earliest known pieces

of monumental medieval stone sculpture. The layout and the light chip carving indicate that the sculptors had studied earlier stone reliefs and contemporary metalwork such as the Basle altar frontal.



8 This large altar-frontal of beaten gold was given to Basel Cathedral by the German emperor Henry II (c. 1019). The central figure of Christ is flanked by the archangels Gabriel and Raphael on the left, and SS Michael and Benedict on the right. Henry and the Empress Kunigunde kneel at Christ's feet. Few large precious-metal objects have survived from the early periods. Their value as metal tempted later generations to melt them down.



7 The gold-covered cult-figure of Ste Foy was originally made in the 10th century, but pious visitors to her shrine at Conques have, over the centuries, encrusted this reliquary with precious stones, cameos and crystals. Although other figures were made, a statue was considered idolatrous and most reliquaries are casket or shrine shaped and contain the saint's relics. Sometimes a representation of a particular part of the holy body is on top.



Romanesque art of the 12th century

The huge churches built towards the end of the eleventh century placed great emphasis on the east end, where the main altars and relics were sited. Outside, the lavished walls and roofs of the apsidal chapels, ambulatory, clerestory and perhaps galleries, culminated in mighty towers; inside, the increased use of sculptural decoration and sumptuous church furniture emphasized the respect owed to the shrines in the sanctuary. On entering, usually at the west front, the pilgrim often had to pass under evocative, carved tympana, dominated by a central Christ figure surrounded by the Heavenly Host, or vigorous apocalyptic scenes from the Last Judgment.

Interior decoration by secular artists

The increased use of ashlar had led to greater skill in stone-cutting. Because the walls were now divided into arcades and piers, the didactic and decorative functions of the large-scale wall-paintings were transferred to sculptured capitals and portals (which were then painted) or, in some regions, to stained glass. These capital designs had to follow the lines of the particular structure but a tym-

panum over a door, or a panel inserted into the wall, had no structural function, so only the shape was determined by architectural factors. Animal and human figures, therefore, had to be reinterpreted and traditional iconography amended to fit these new shapes. For subject matter, the sculptor looked to the older arts of metalwork and manuscripts which supplied an endless variety of suitable iconography. But for figurative techniques, surviving Roman sculpture was undoubtedly influential.

This divergence from the original, and the different treatment of stone, help to explain the many styles that emerged, often with little connection to regional variations. It must be remembered that workshops were composed of itinerant masons, sculptors and painters hired by ecclesiastical patrons, and not of resident monks. Some even autographed their work, like Gislebertus at Autun [7], or Wiligelmus at Modena. Although a man might specialize in designing secular buildings such as castles and town houses, his workmen would probably also have built and embellished abbeys, cathedrals or parish

churches. Decorative details are therefore common to all types of structure from centres of worship to dwelling-places.

Reactions to ostentation

An enormous increase in the demand for church furnishings led to a concentration of lay craftsmen in places where patronage or raw materials were most readily available. Products from centres such as Cologne or Liège (metalwork), or Limoges (enamels) [4], and sometimes master craftsmen too, were sent throughout Europe. Similar methods probably applied to the production of illuminated manuscripts [5], particularly the lavish "picture books" for the personal use of abbots and bishops. Everyday service books, however, were most likely copied out within the cloisters of major monasteries. Such ostentation produced inevitable reactions. In particular, the Cistercian order, led by St Bernard of Clairvaux (1090-1153), returned to the monastic ideals of poverty and purity which they felt had been betrayed by painted sculpture and the liberal use of precious metals and jewels.

CONNECTIONS

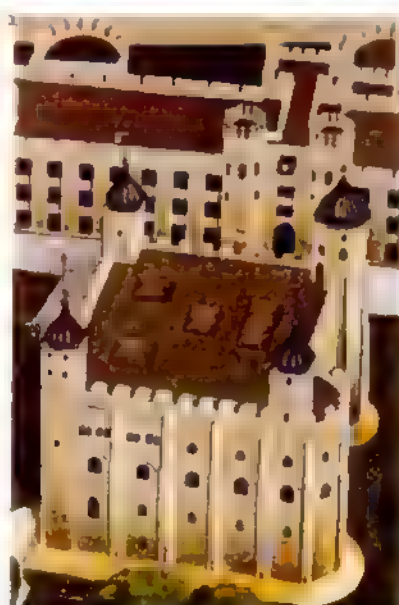
See also

11th century
12th century
13th century
14th century
15th century
16th century
17th century
18th century
19th century
20th century



1 The nave of Durham Cathedral (finished in 1133) is a tentative application of rib vaults to a main span, but clearly demonstrates the advantages that such a co-ordinated vault type could bring. The emphasis is still on strength and solidity and the cylindrical piers cannot hide their size behind the simple surface patterns. The chevron or zigzag was a popular motif with Norman builders in 12th century England.

2 The medieval builder depended as much on resources of wood as on stone because huge scaffolds were needed for the construction of vaults and arches. The arch stones (voussoirs) were placed on wooden centering, the last key stone locking the radiating voussoirs together. Once the mortar had set, the centering was lowered and moved on. Exact workshop practices are, however, difficult to ascertain.



3 This is the massive central keep of the Tower of London (1078-97), one of the earliest Norman castles in Britain. Few stone castles existed in western Europe before 1000 but by the end of

the 12th century hundreds had been constructed to house noblemen's families and defend their dependants in times of attack. The Crusades gave rise to more sophisticated and expensive techniques.



4 The life of St Valerie, the patron saint of Limoges, is illustrated on this enamelled casket (c. 1170). According to legend, she was engaged to a prince who found on his return from war that she had dedicated her life to God and

so could not marry. The prince then had her beheaded (right). On the lid St Valerie can be seen head in hand, walking to mass escorted by angels. This is one of many ornately embellished copper casket reliquaries with attached panels

decorated with figures enamelled in blue, red and turquoise on golden backgrounds. Most surviving medieval enamelwork is on church accessories, the medium lending itself to delicate and glittering small-scale work.



5 The Bury Bible is an illustrated English manuscript of about 1140. On the left, a large painted panel depicts the scene of the prophet Jeremiah lamenting the imminent fall of Jerusalem. On the right, a decorated initial heads the text with armed men and dragons inhabiting the vine-like foliage. The rich palette, especially the solid background colouring, and the carefully drawn faces are evidence of the high quality of the manuscript.

In order to display these treasures to their best advantage, the vogue throughout Europe for stone-vaulted churches had to be reconciled with another factor, that of natural, direct lighting. Dark, mysterious interiors were rivalled by open, well-lit spaces, the light sometimes being filtered through stained glass. In barrel-vaulted churches the half-cylinder of stone that makes up the roof exerts an even, outwards thrust along its entire length, requiring continuous support. Building windows into these walls therefore compromised the stability of the vault.

In Pontou, the barrel-vault rises directly from the top of an arcade of very tall columns. Large windows in the aisle wall flood the central space with light. However, this was only efficient in narrow, single-aisled buildings, and left the upper half of the church dark. A more practical system shed light from both aisles and clerestory: to achieve this, vaulted galleries above the aisles were used to buttress the main elevation, just below the "springing" level of the main span. This assured stability and allowed small clerestory windows to be made. However

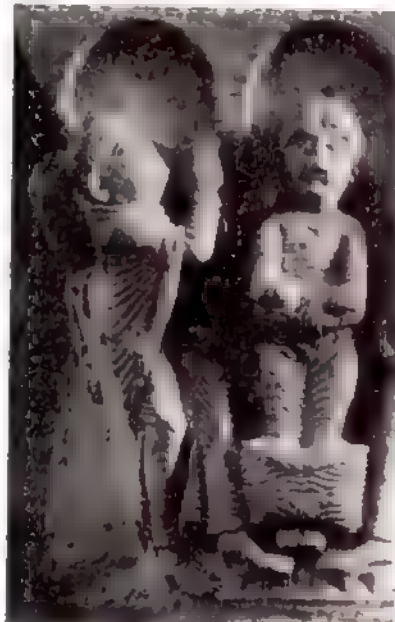
the problem could only be solved by dispensing with continuous support, and this meant new concepts of vault design.

The development of new vault types

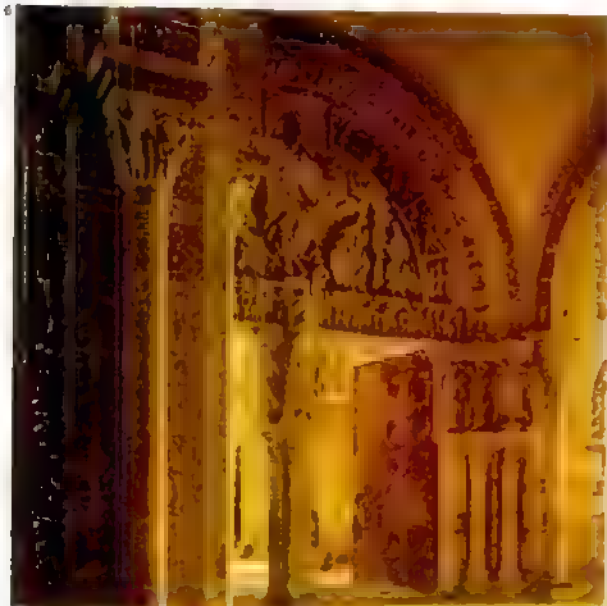
In western France, about 1100, great domes were built on huge arches over the main span, which concentrated pressure on the four corners. These were then heavily buttressed. This solution was admirable for the traditionally aisleless churches of that area, but elsewhere, especially in the Anglo-Norman region, aisles surmounted by open galleries as high as the main arcade were considered necessary. Over aisles and around ambulatories, "groined" vaults (formed by two simple tunnel vaults intersecting at right angles) had been used. Again, the four corners provided support so that the walls between could be pierced for windows.

In northern France, from about 1140, such a system evolved, later to be called Gothic. But elsewhere, Romanesque wall architecture continued until the thirteenth century, when the other arts had begun to look for more naturalistic inspiration.

217



In this detail of a capital from the narthex at Vézelay St Paul (on the left) is praying for the redemption of the world. The function of the capital is to make a smooth transition between the round shaft below and the square or rectangular shaped masonry above. The Romans used a number of capital types, employing stylized acanthus leaves and scrolls. When figurative scenes were carved out of capitals the sculpture had to conform to the architectural shape and not interrupt the gently playing lines. Here St Paul's leg, back and head continue the capital's contours although the actual pose of the figure appears unnatural.



6 Originally the west doors at Vézelay fronted the hilltop church, but a large towered narthex or porch was added in about 1150, and this vulnerable sculpture was protected from the weather. It is one of the greatest ensembles of Romanesque carving, full of energetic figures in ample and swirling draperies.

7 The existence of many Roman monuments in Autun influenced the architectural decoration of the 12th-century cathedral there. Flat fluted pilasters, for example, were used rather than the usual round shafts. The wealth of sculpture typifies the decorative concepts of a developed Romanesque church.



8 The painted apse of the chapel at Berzé-la-Ville is thought to have been commissioned by Abbot Hugh of Cluny before his death in 1109 and to be a simpler version of the main apse painting of his great abbey church at Cluny. Directly above the altar, Christ sits in glory within an almond-shaped panel surrounded by the Heavenly Host. He is giving a scroll to St Peter, who is holding the keys to heaven. Below the window there is a range of saints and around the base of the apse wall simulated drapery. Originally all great churches had such scenes above the altar, often illustrating the martyrdom and life of the saint to whom the altar was dedicated.



9 The west façade of Notre-Dame-la-Grande, Poitiers (c. 1140), is considered to be one of the finest in western France. An area noted for its copious use of external sculpture. Also typical of the area are the corner turrets faced by shafts and topped with scale-like stone roofs. Although there is only one central entrance, the custom of inserting three or more deep decorated portals within a grandiose façade was popular in the Middle Ages.



The Crusades

The immediate cause of the First Crusade – and the starting-point for a major stage of European expansion – was the threat to the Byzantine Empire created by the Seljuks. These Muslim tribesmen had conquered the empire's richest province, Anatolia, and farther east had dispossessed the caliphs of Antioch, Tripoli and Jerusalem. An attack on Constantinople seemed inevitable.

In 1095 the emperor, Alexius I Comnenus (reigned 1081–1118), an able soldier and diplomat, therefore asked Pope Urban II (1042–99) for assistance, basing his request for a contingent of mercenaries to retake Anatolia with the suggestion that they could then travel on to liberate Jerusalem. Urban responded [1] and for the first time the Papacy sanctioned a "holy war". It promised that whoever undertook this pilgrimage would be freed from all penances due.

The First and Second Crusades

The four separate armies of the First Crusade [3] converged on Constantinople in the winter of 1096–7: men from Lorraine, the Norman kingdom of Apulia, Provence, Brit-

tany, Normandy and Flanders. The Franks took Nicaea and Dorylaeum, Antioch fell after a lengthy siege, and the Crusaders stormed Jerusalem in July 1099 [2].

With the holy places conquered, territorial motive now became paramount. Four Frankish states [5], defended by the castles and garrisons of the Templars and Hospitaliers [6], survived increasing Muslim pressure until 1144, when Edessa fell. A crusade was called for by Pope Eugenius III (died 1153). Emperor Conrad III (1093–1152) and King Louis VII of France (1121–80) incompetently led the armies of the Second Crusade (1147–9) to starvation and disaster in Anatolia.

Jerusalem falls to the Turks

A further revival of Islam and the empire's final loss of Anatolia to the Seljuks in 1176 left the Latin states in danger. Saladin (Salah ad-Din, 1137–93), the brilliant Kurdish vizier of Egypt, united Islam from the Nile to the Tigris and in 1187 invaded the Latin Kingdom of Jerusalem, and overran the Frankish states.

The armies of the Third Crusade (1189–91) came to their aid and Frederick I (Barbarossa) (1123–90), the Holy Roman Emperor, took the Seljuk capital of Iconium. Philip II Augustus of France (1165–1223) and Richard I of England (1157–99) joined the ex-King of Jerusalem, Guy of Lusignan (1140–94), in besieging Acre, which surrendered after a two-year siege. Richard then set out for Jaffa, the port of Jerusalem, and although he won the coast from Tyre to Jaffa for the Christians, was prevented from attacking Jerusalem.

The Fourth Crusade (1202–04), supported by Pope Innocent III (c. 1160–1216) to restore the kingdom of Jerusalem, resulted in the debasement of the ideal war was now made against fellow-Christians for gain. Venice, which largely controlled the eastern Mediterranean, forced the army to accept a price for transport to Egypt which it could not pay. The Doge of Venice agreed to remit the debt only if the troops were diverted to repossess Zara on the Adriatic, a former Venetian city taken by the Magyars in 1186. The army was then persuaded to intervene in

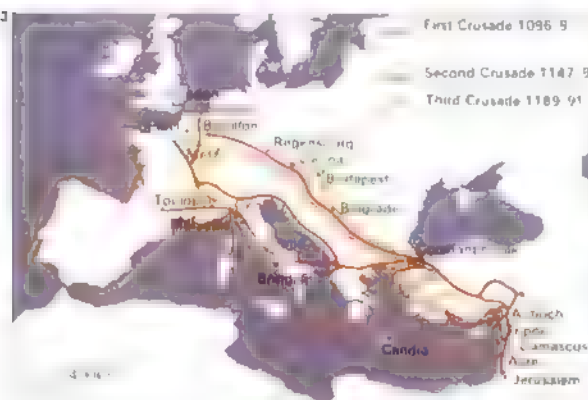
CONNECTIONS



1 Pope Urban II's appeal to the Council of Clermont, 1095, launched the First Crusade and was an attempt to reconcile Church and state. The reply to his call, a shout of 'Deus vult' (God

wills it), later became the battle-cry of Crusader knights in the Holy Land. His appeal led to the spontaneous and ill-disciplined People's Crusade (1096). The Pope's appeal to biblical images of Jeru-

salem, the heavenly city, made the idea of freeing the earthly city one of great splendour and power. The Pope reinforced his appeal with calculated references to Western over-crowding and famine.



First Crusade 1096–9

Second Crusade 1147–9

Third Crusade 1189–91

3 The recovery of the holy places and the protection of the subsequently established Frankish states were the aims of the early Crusaders. The separate armies of the First Crusade (1096–9), from France, Provence, Normandy, Flanders

and Apulia, joined at meeting-points throughout Europe, marched through Magyar territory to Constantinople and fought their way across Asia Minor. Those of the Second Crusade (1147–9), led by the kings of France and Germany

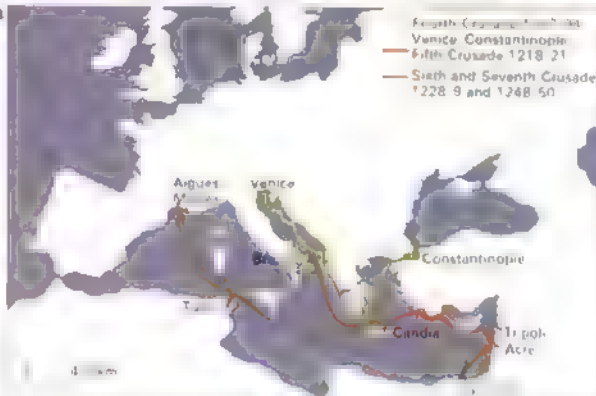
also went overland but their refusal to adapt to conditions of Eastern warfare led to their destruction by the Seljuks of Asia Minor. By the Third Crusade Western naval strength had improved and Richard I chose a sea route to Acre

2 Crusaders besieging Jerusalem in June and July 1099 faced fortifications more complex than any in northern Europe. A quick assault was necessary as the defenders had poisoned the wells for 10km (6 miles) around the city. Wood had

to be fetched by sea for the scaling ladders, mangonels (beams that hurled boulders), giant catapults and trebuchets (slings worked by counterweights). Three wooden 'castles' on wheels, to make possible attacks on the upper levels of

the walls, were hung with hides to ward off arrows and 'Greek fire' (a blazing naphtha-based mixture extinguishable only by vinegar). The knights cared for their horses before they looked after themselves: heavy warhorses, trained to

charge home against infantry and able to carry a man wearing a third of his own weight again in armour, were irreplaceable in the East. Loss of his horse reduced the knight to the ranks of the foot soldiers. The heat claimed many lives.



Fourth Crusade 1202–04
Fifth Crusade 1218–21
Sixth and Seventh Crusades 1228–9 and 1248–50

4 Directly concerned with saving Jerusalem, the 4th–7th Crusades aroused far less enthusiasm in the West than had their predecessors. Greed and hatred for fellow Christians in the East made the army of the Fourth Crusade easy prey for the manipulations of Venice. Personal magnetism and negotiating skill brought about what successes were later achieved by Emperor Frederick II and King Louis IX of France.

a Byzantine dynastic quarrel and besiege Constantinople itself. The presence of a Frankish army brought to a head hatred between Greek and Latin Christians, long fostered by mutual blame for successive crusading disasters. In April 1204 the Crusaders seized and looted the city.

The Crusaders finally defeated

After the failure of the Fifth Crusade, 1218–21, the last in which the Papacy was actively involved, the Pope's Hohenstaufen enemy in southern Italy, the Holy Roman Emperor Frederick II (1194–1250), conquered Jerusalem by political means. He claimed its throne through his wife and sailed on the Sixth Crusade (1228–9) while actually excommunicate. Supported by the Teutonic Knights, he negotiated a ten-year truce that restored Jerusalem (except for the Temple and Muslim holy places) to the Franks. In 1229 Frederick crowned himself King of Jerusalem but, after the truce, quarrels over territory between Templars and Hospitaliers so weakened the kingdom that it fell in 1244 to the onslaught of mercenary Turks.

Louis IX of France (St Louis, 1215–70) made another attack on Cairo in the Seventh Crusade of 1248–50, but was taken prisoner. Freed by ransom, he rebuilt Jaffa and Acre and conciliated Muslim leaders. His return to France, however, left the kingdom of Jerusalem crumbling because of the renewed rivalry of the military orders. Baibars, Mameluke Sultan of Egypt from 1260 to 1277, took advantage of this division; in 1268 he seized Jaffa and Antioch, and in 1271 the castle of Krak des Chevaliers (Key) Louis IX, mortally ill, set out again on the Eighth Crusade (1270) but died in Tunis. Prince Edward (later Edward I of England, 1239–1307) reached Acre in 1271 and negotiated an 11-year truce, but in 1289 Tripoli fell to the Mamelukes and in 1291 they captured the last stronghold, Acre.

The territorial and spiritual triumphs of the Crusades were short-lived. Urban's vision of a united Christendom degenerated into papal autocracy; the division between Latin and Orthodox Christians became absolute. The West's chief defence against Islam, the Byzantine Empire, was fatally weakened.

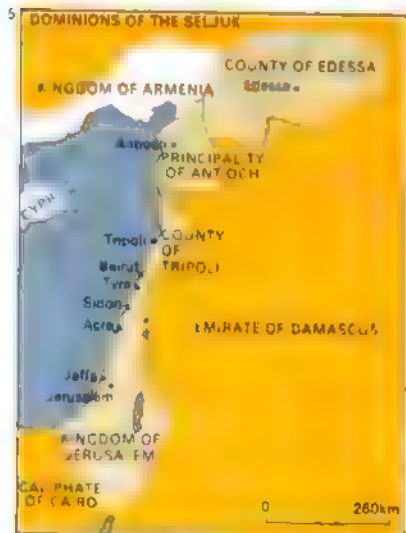
KLV



Krak des Chevaliers, best preserved of Crusader castles, guarded the north-west flank of the County of Tripoli. Begun in 1142 by the

early Crusaders, it defied 12 sieges falling to Baibars in 1271 when its garrison of 2,000 was reduced to under 200. Frankish forts were

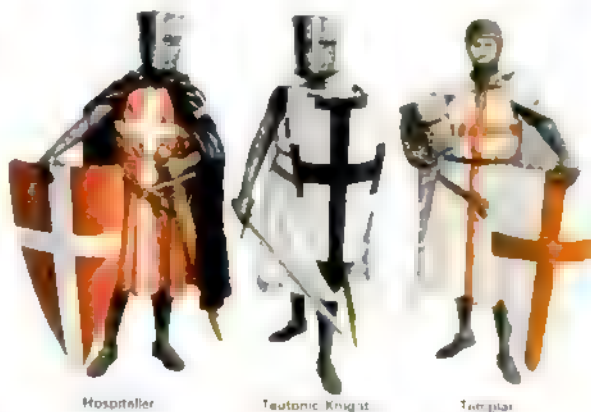
first built by the Templars to protect the pilgrim route to Jerusalem and later given into chains of castles guarding the frontier and ports.



Muslim territory
Extent of Crusader States about 1140

5 The four Crusader states comprised the County of Edessa (founded 1098), the Principality of Antioch (1098), the Kingdom of Jerusalem (1099), which claimed the overlordship, and the County of Tripoli (1109). The last, the smallest and weakest, had an unexpected ally in the Assassins, an heretical Muslim sect which supported the Franks against Damascus for 200 years. The states were feudal, had their own coinage and traded widely with Europe and the Levant.

6



Hospitaller

Teutonic Knight

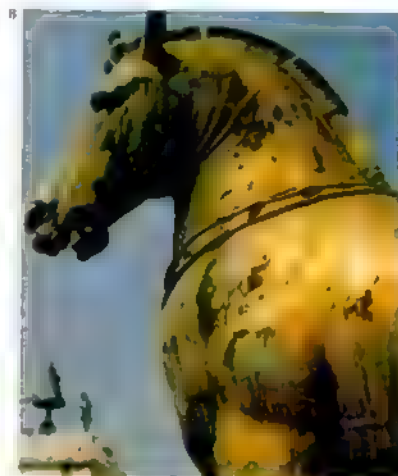
Templar

6 The military orders' offer of a life of religion and battle brought recruits from England, France, Portugal, Spain and Italy. The Hospitallers began in the 11th century as guardians of the pilgrim hospice of St John in Jerusalem. The first Templars, given their rule by Bernard of Clairvaux in 1128, lived in the palace of the King of Jerusalem, the Temple. In contrast the Order of Teutonic Knights, founded in 1198, was confined to German nationals only. The orders were answerable only to the pope and held the only standing armies in the East.

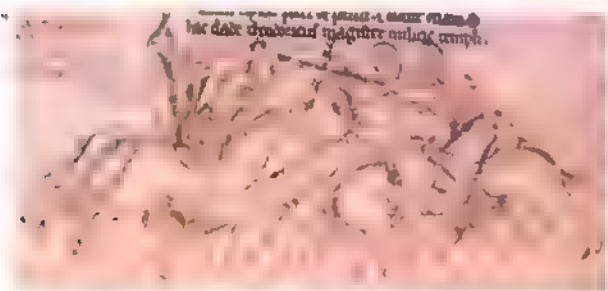


7 The fortified cathedral of Aki in southern France, founded in 1277, was a deliberate symbol of the Church Militant's triumph over the Cathar heresy, which denied the reality of Christ's incarnation. The Cathars were brutally suppressed by Simon de Montfort l'Amaury (1160–1218) in a crusade of 1209 inspired by Innocent III, who introduced the idea of mounting crusades to crush Christian heretics and enemies of the Papacy.

8



8 The sixth-century Quadriga of Lysippus, four splendid bronze horses taken during the sack of Constantinople (1204), still stand over the portal of St Mark's, Venice. A less tangible result of the Fourth Crusade was the flow into Western Europe of Greek scholars seeking refuge from the Turks, which gave impetus to the Renaissance. Earlier Crusades imported to the West new goods: damask, muslin, carpets, rice, sugar, lemons, spices, dyes, and the Arabic numerals which revolutionized mathematics.



9 Saladin, a chivalrous and courteous enemy, was taken as an ideal by many Frankish knights. This 13th-century drawing from the *Chronica Majora* of Matthew Paris shows him wresting a relic of the True Cross from Guy de Lusignan, King of Jerusalem, at the battle of Hattin (1187).

10



10 Crusaders' tombs in English churches usually show a knight lying peacefully, his legs crossed. But in Dorchester Abbey Sir John Holcombe, who died on the Third Crusade, is shown in effigy struggling to draw his sword.

The king and the barons

The institutions of English government were born between 1100 and 1400, only the monarchy itself is older. Kings before Henry I had taxed and dispensed justice, but the permanent institutions of the Exchequer and the King's Court on Justice took shape in his reign. They were the foundations of the vast structure of government that developed in the twelfth century: the Chancery, the Privy Seal, the courts of King's Bench and Common Pleas. The workings of this great machine penetrated into every corner of the kingdom, and its powers and limits were the underlying political question of the age.

The growth of the leading families

Naturally, those with most to gain or lose from the king's government were his greatest subjects, whom medieval chronicles and documents such as Magna Carta call the "barons". During the twelfth century, the English nobility constituted a formidable order. Until then, the members of great noble families had been adventurers, and few survived more than two generations. From Henry I's reign onwards the natural life of a

baronial family was much longer, as political co-operation and the development of landed estates became more attractive.

In defence of the principle of inheritance the families made a determined front, and subsequent kings could not ignore the power and the steadily accumulating wealth of successive generations of Lacys, Clares, Bigods and Mortimers. Far from being opponents of central government, they usually wished to participate in it, and the "common law" administered in the king's courts, with its sensitivity to questions of land and inheritance, was developed to meet their needs.

The twelfth century was the period of formation for both the baronage and the king's government. Henry I (reigned 1100-35) [Key] raised many new families from obscurity, which threatened old established barons, but it was reasonably possible in his reign for a landed family to hold on to its property and to prosper. But the civil wars of Stephen's reign (1135-54) [1], which followed Henry's death, was the critical time for all landed families, old or new. The succession dispute, far from pro-

viding opportunities for them, made their tenures radically insecure. The Treaty of Winchester (1153), which assured the succession of Henry II, also ensured the survival of the great landed estates, and most of the barons gave Henry their loyal support in return for the profitable "incidents" (wardships, or marriage to heiresses in the king's protection) or offices (such as the shrievalty of a county) created by renewed royal power.

Magna Carta and after

The loss of the European dominions by King John (reigned 1199-1216) [2], and his attempt to regain them forced him to exploit his authority and patronage, and "amerce" or take a fine from the barons for every favour he did them and every real or imagined offence he "overlooked".

Many were brought to the point of ruin. The inevitable reaction resulted in Magna Carta (1215) [4], in which the barons tried to enumerate and forbid the various abuses of royal power. Its reassertion of fundamental rights was not a revolutionary idea, but it marked the resumption of the leadership

CONNECTIONS

See also



1 Henry II crossed to England from France in 1153 as this contemporary miniature shows. By 1150 it was clear that King Stephen could not eject the Empress Matilda or her son Henry from Normandy, nor could they expel the king from England. Henry's invasion threatened another bloody stalemate, but Stephen was made to disinherit his son Henry II and his magnates co-operated in restoring order, devising a more just and effective law, and introducing trial by jury and assize courts. These courts, which relied on travelling judges dispensing royal justice, impinged to some extent on the barons' rights to hold feudal courts on their own estates.

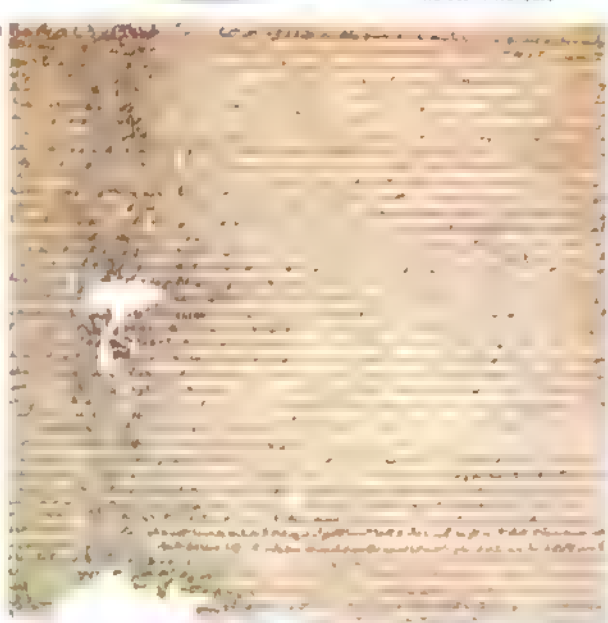


2 The Great Seal of King John (c. 1210) symbolized the beginnings of a momentous change in methods of government. In John's reign the Chancery formalized its procedure and began to keep systematic records of the grants and royal acts made under the Great Seal. The two series of Patent Rolls (open letters) and Close Rolls (written to individuals) show the birth of a professional civil service with its own interests.

3 John gives the traditional kiss of peace to Philip II Augustus, King of France (r. 1180-1223) his feudal superior. John, who as the brother of Richard I (r. 1189-99), had occasionally been an accomplice of Richard's enemy, King Philip, was far less successful at holding together the Angevin Empire than Richard. By 1204, the French king's armies had swept through the fortresses of Normandy; the attempt to regain them put a strain on English resources until the Treaty of Paris in 1259. The loss of Normandy brought to an end long wars in France, but in the subsequent recriminations it also had the effect of tarnishing John's image, and from then on he was regarded as an incompetent king.



4 A copy of Magna Carta (one of only four official copies to survive) symbolizes the acknowledgment of the fact that the monarchy is subject to the law of the land. This recognition was extracted from an unwilling King John at Runnymede by a league of barons, churchmen and townspeople. Magna Carta is a detailed schedule of specific articles that guaranteed many kinds of inherited rights and privileges and limited the king's prerogatives.



5 The Battle of Evesham (1265) which ended the 'Barons' Wars', saw the defeat and death of Simon de Montfort. Despite this, his reforms of government, which reflected the growing authority of the classes below the baronial ones, were largely accepted.

of the community, by the united baronage

Most of the subsequent conflicts between king and barons were the result of the Plantagenets' foreign ambitions and the strain this put upon their subjects. In each case the barons acted merely as the spokesmen of a now entrenched and articulate landed class. The ambition of Henry III (reigned 1216-72) to intervene in Italian politics led to a spirited contest with Simon de Montfort (c. 1208-65) at the head of a strong popular movement. The baronial programme enshrined in the Provisions of Oxford of 1258, put control of the administration into the joint hands of the king and the barons to prevent the Crown developing interests against those of the nobility and, by implication, those of the country. De Montfort's cause was finally overthrown [5], but he had sufficiently shown the impossibility of foreign wars without a broad consent.

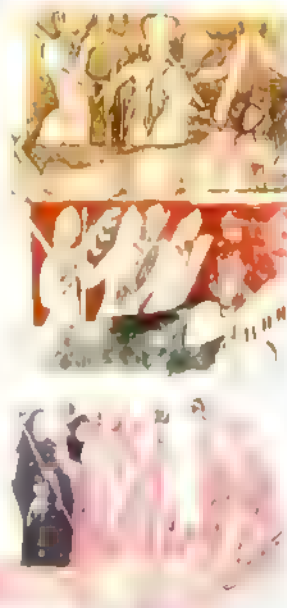
The barons and external wars

Edward I (reigned 1272-1307) was more masterful than his father, Henry III, but the strain put on the economy by his Scottish

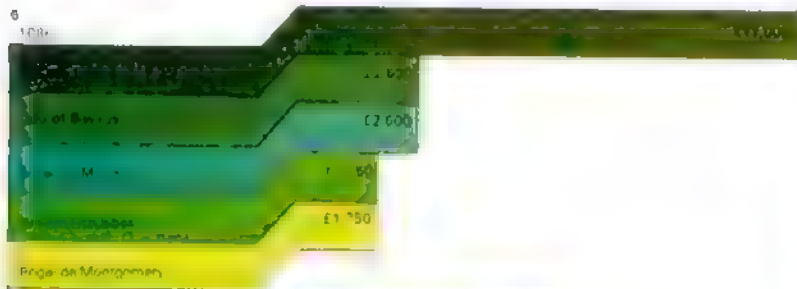
wars – taxation, the king's right to "purveyance" (seizure of supplies for his campaigns), and the hard military service – alienated his barons in the absence of decisive victory. They vented their frustration on his weaker son Edward II (reigned 1307-27). At first only his favourite Piers Gaveston (died 1312), was under attack, but the barons demanded in the "Ordinances" of 1311 control over the king's household and his powers of patronage.

Edward III (reigned 1327-77), however, showed that confrontation could be avoided. He reconciled the baronial factions in the great national enterprise of the French wars and opened up for them prospects of new wealth at French expense, at a time of falling profits from land. Richard II (reigned 1377-99) [10], because of his reliance on a private army and household government and Henry VI (reigned 1422-61; 1470-1) because of his insanity, were both driven from their thrones, but a fundamentally stronger national government came into existence in the fourteenth century through the combined efforts of kings and barons.

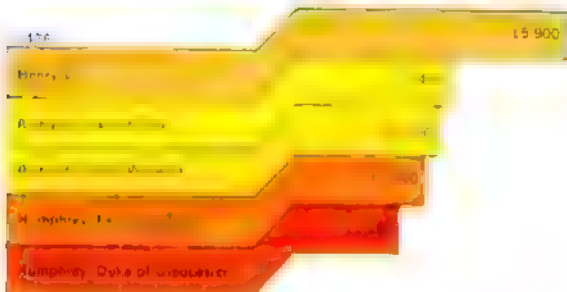
KEY



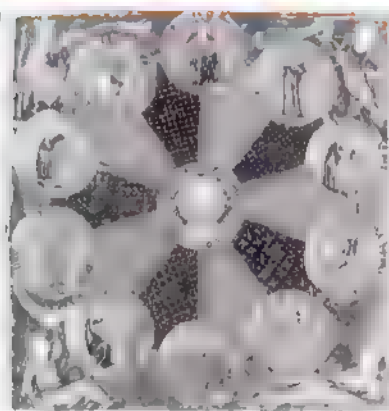
The nightmare of Henry I was narrated in an illustrated 12th century chronicle by John of Worcester. According to this, Henry dreamed that he was confronted first with a mob of infuriated peasants, then with a group of armed knights brandishing the sword, and finally with a company of aggrieved prelates. The dream symbolizes the contemporary idea that society was divided, as King Alfred said, into "Men who fight, men who work, and men who pray." Henry's extortions from the propertied classes had given him a reputation as a rapacious ruler. He also encouraged centralization of power, a concept that aroused opposition from the entrenched nobles and their followers.



6 The king's income in 1086 and 1436 compared well with that of noblemen for the same period. The king's land in 1436 was mostly Lancaster (ie private) estates but his income was greatly boosted by taxes and customs (which are not shown here). By 1436 the king's advantage in landed wealth had obviously diminished.



7 The Court of King's Bench in about 1250 administered laws and functioned by means of already established procedure. The judges, clerks and attorneys were all professional lawyers. The court was one of the most valuable institutions to the Crown in terms of prestige in the country and income from fines.



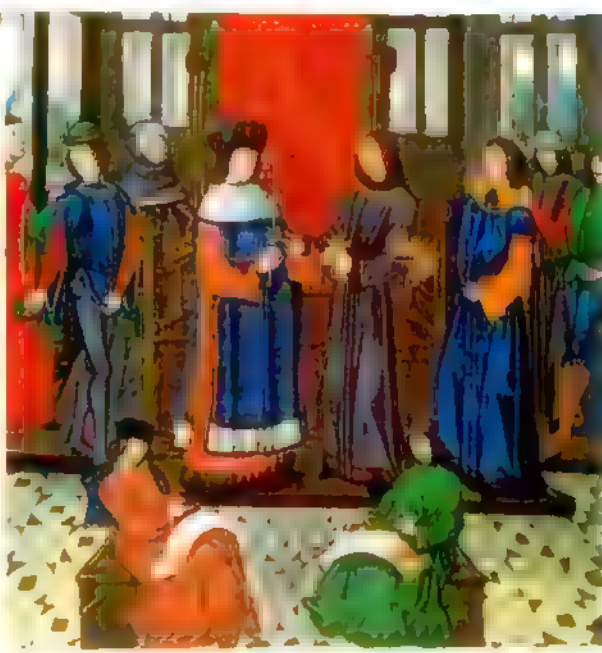
8 The wheel of fortune was a popular symbol in the 1300s and 1400s. It testified to the preoccupation with the acquisition of wealth and advancement via patronage. Many medieval illustrations stressed the impermanence of authority, and how balances

of power had constantly to be made. The opportunities open to able, ambitious but poor young men increased in the 1300s. Fortunes could be made from war, and time spent in the service of the king or a great nobleman could also be profitable.

9 John of Gaunt (1340-99), the greatest noble of the reigns of Edward III and Richard II, kept a small armed retinue even in peacetime, it derived from the army he collected for the wars in France.



10 Richard II handed over his sceptre when challenged by his exiled cousin, Henry Bolingbroke (Henry IV). The unreliable Richard had made too many of his subjects feel insecure to attract their permanent loyalty.



Medieval Ireland

The continual feuding of the petty Irish kings during and after the Viking period eventually brought about English intervention in 1169, and the Norman barons who settled in the country soon controlled the greater part of it. Throughout the period there remained in the west a distinctly Gaelic culture, by which the Anglo-Irish lords of the Midlands in the fourteenth century came to be affected; the east maintained its ties with England. The great Midland families gradually increased their power and independence from the English king and the eastern English colony, and because of internal strife the English kings were in no position to reassert their control until the end of the fifteenth century.

The Vikings and the English

By 900 the Vikings had already gained footholds along the Irish coast [1, 2] and Dublin had been founded as a trading colony as early as 841. But the Vikings had not shaken the rule of the Irish kings in the interior. The strongest of these proved to be the northern Uí Néill dynasty who defeated

the Eóganacht kings of Munster in 908. The Eóganacht power in Munster then gradually passed not to the Vikings in Waterford and Limerick but to the Dál Cais of north Munster. The most famous personality of this sept (Irish clan) was Brian Boru (941–1014), who succeeded in becoming king of all Ireland by 1002, and finally destroyed the Viking threat at the Battle of Clontarf in 1014 [3].

Despite the reputation the Vikings had earned as ruthless plunderers, they contributed much to Irish life. Many of the country's most important maritime towns were founded by them, and from the Vikings the Irish learnt seafaring, and commerce based on coinage and market-places.

By the eleventh century the great Irish monasteries were in decline, and at a number of synods, culminating in the synod of Kells in 1152, reforms were introduced to bring them into conformity with the rest of Europe. Many older monasteries were not revived by the new division of Ireland into dioceses, but others gained new purpose by adopting Augustinian rule. The foundation of Mellifont by the Cistercians in 1142

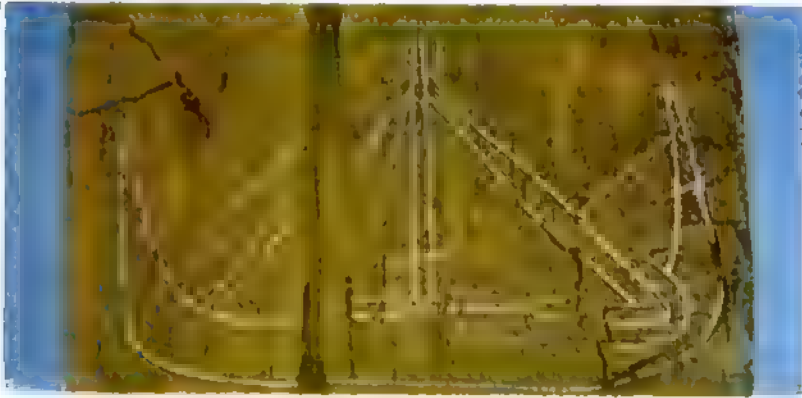
kindled a new enthusiasm for monastic life, which was maintained and fostered by the Dominicans and, particularly in the fifteenth century, by the Franciscans.

Invasion and resurgence

With the extinction of Viking power and the death of Brian Boru, the Irish chieftains were free to pursue unresolved wars for 150 years. In 1166 the ruler of Connaught, Rory O'Connor (1116–98), became the first king of all Ireland since 1014, but his glory was brief. Dermot MacMurrough (1110–71), whom he had ousted from Leinster, sought English aid and the English king, Henry II, sent over from Wales a contingent of Norman barons. But the conflict of interests soon ended any arrangement between the Irish and the invaders, despite the brief peace of 1171 and a second compromise, the Treaty of Windsor of 1175. The Irish kings were outraged by Henry's repeatedly granting land to his vassals, but what the English king made over on parchment, the barons were determined to conquer by the sword. One region after another – although not the

CONNECTIONS

See also
The Vikings
The Irish and
the English
Anglo-Norman
Ireland

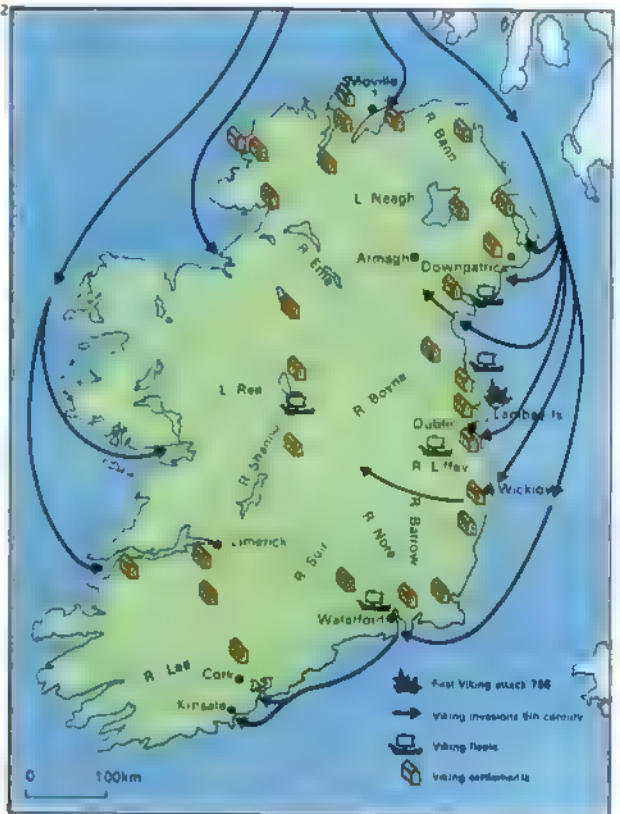


1 A ship drawn on wood, dating from about 1100, was discovered during excavations in Dublin. Showing clear Viking influence, it offers a glimpse into the type of vessel used by traders of the period.

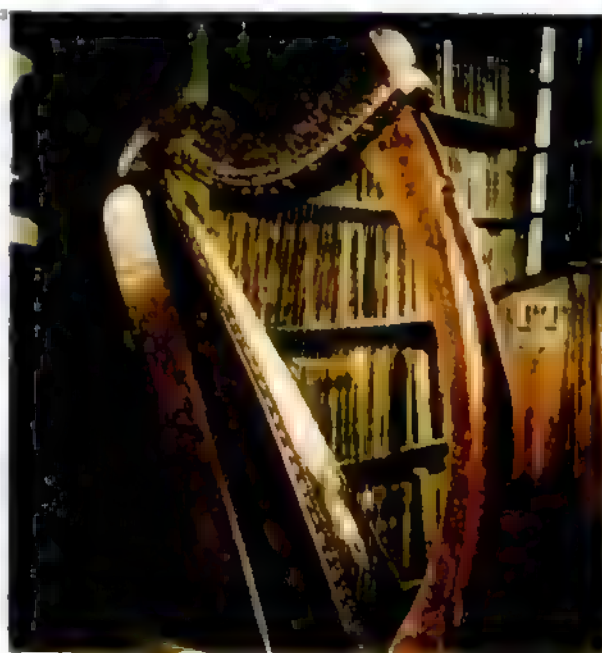
2 The many Viking descents upon Ireland began in the fateful year of 795. During the next 50 years, Norwegian Vikings made sporadic raids down the west and east coasts, plundering as they went. They

also sacked up the Shannon from Limerick in an attempt to gain a foothold in the area of Connaught and Lough Ree. They established a permanent settlement with the founding of Dublin in 841. In the century

after the Danes appeared in 850, Viking settlement was extended south of Dublin along the east and south coasts, and towns with Viking names such as Wicklow, Waterford and Wexford were founded.



3 'Brian Boru's harp' traditionally said to have belonged to the Irish high king, was first made about three centuries after his death in 1014. It was Brian who finally subjugated the Viking invaders in 1014 and in 1028 he united his brother's kingdom of Munster and began his avowed conquest of all Ireland. By 984 he controlled Leinster and was supreme over southern Ireland. In 1005 Brian became the first King of Ireland. In 1013 the opposition to his rule, the men of Leinster and the Vikings, were defeated at the Battle of Clontarf. In 1014, he emerged victorious although the battle was a tactical draw. The harp is the symbol of the Irish people.



4 Dunluce Castle, on the coast of Ireland, is one of the few surviving tower houses built by

native Irish chieftains between 1450 and 1850. The fortifications of these structures were much smaller than those of the 13th century Norman castles.

native Irish chieftains between 1450 and 1850. The fortifications of these structures were much smaller than those of the 13th century Norman castles.

northwest to the Normans [6], who were better equipped and better disciplined than the Irish. The invasion of Connaught in 1255 marked the greatest extent of Norman power. The Normans consolidated their newly won territories by building castles [Key], and settlers founded and fortified many inland towns.

Despite the Norman Conquest, Gaelic Ireland survived. It not only retained its laws, language, traditional institutions and culture, but from 1260 began to fight back. The English presence in Ireland was severely shaken by the invasion in 1315 of the brother of the king of Scotland, Edward Bruce (1278-1318), who saw himself as a liberator and lost his life in the battle of 1318. The English were further weakened by the onset of the Black Death in 1348. It was in the west, the stronghold of Gaelic power and culture, that the de Burgo family in Connacht began the trend among the Anglo-Irish elites of adopting Irish customs and even language. In 1461, Edward IV, Duke of Clarence, the second son of Edward III, having been driven from the whole country to

his rule, enacted the famous and divisive Statutes of Kilkenny (1366). These in effect outlawed all who adopted the manners, fashion and language of the Irish enemies.

Virtual independence

Two visits by Richard II in the 1390s were no more than superficially successful [7]. The "Pale", the area remaining English and loyal, became smaller in the fifteenth century, while the virtually independent Anglo-Irish lords of the Midlands expanded their power. In the west, Gaelic chieftains had wrested the land from absentee landlords. First the earls of Ormond, then the earls of Desmond, and finally the earls of Kildare were the greatest power in the land, and the greatest of these was Garret More Fitzgerald, the Great Earl of Kildare, who when he died in 1513 was the undisputed king of Ireland. A parliament at Drogheda in 1460 had declared that Ireland should be ruled only by laws passed by itself. The 1494 parliament under Edward Poynings (1489-1521), the viceroy of Henry VII, revoked this and heralded the Tudor reconquest [8].



Trim Castle is the largest stone structure and dominated by a Norman-baron named De la Rey in 1200. Trim was a strategic central tower in the middle of a large

standing area defended by a chain of ring-bay towers, and by water. Shortly after the Normans lost the battle of Ireland in 1169, they built strong fortifications to

enforce their claims. At first they built mottes, earthen mounds shaped like plum pudding, with a wooden tower on top. The massive stone castles were built later.



6 The Normans defeated the native Irish armies at first both by superior tactics and by better weapons and armour. This superiority was epitomized in the splendid effigy of a knight at Kilkenny shown here. He is eight feet high, his armor with his body covered by a coat of plate, a sword and a shield. A sheathed sword hangs from a scabbard on his right hip, and his sword is round his waist. He wears the early type of row-spurs, which helps to date the effigy at around 1320. The coat of arms on his shield probably is to be a Cantwre, probably Long Cantwre, who described himself as old in 1319. This was a period when Norman power had already begun to decline and shrink before the Normans changed over to the use of plate armour.



8 The Normans arrived in Ireland in 1169. In July 1172 were masters not only in Dublin, Wexford and Waterford but in much of the country. By 1175, King Henry II of England, on a high crest, gave the way for Norman colonization and the founding of towns in the east. Subsequently, Norman lords took over the western province of Connaught, and by 1235, they established their dominance over the western province of Connaught, and by 1280 the greater part of Ireland was in their hands. The northwest alone succeeded in retaining its independence. But by 1400 the Gaelic highlands had regained many of their independence, and by the 15th century, Anglo-Norman domination was largely confined to the provinces of Leinster and Munster.



7 Art MacMurrough Kavanagh (right), King of Leinster, confronts the Earl of Gloucester. The Earl had been sent by Richard I to demand MacMurrough's submission. But he averred that he was Ireland's king.



8 Henry VII (r. 1485-1509) seen here in effigy in Westminster Abbey, expressed his sovereignty over Ireland. Garret More Fitzgerald in London for a year, while the English parliament passed Poynings' Law in 1494, reasserting English control.

Scotland to the Battle of Bannockburn

The Romans attempted to protect their British province by extending their power amongst the Pictish tribes beyond the frontier. For a while, in the second century AD, they occupied the south of what was later called Scotland and built the defensive Antonine Wall across the narrow waist between the Forth and the Clyde [1].

The foundation of Scotland

In the sixth century "Scots" from Ireland crossed the narrow sea and began to settle among the scattered tribal communities of Picts, founding the kingdom of Dalriada in what is now Argyll. Eventually in the ninth century, by a mixture of royal intermarriage and conquest, the Scottish king Kenneth mac Alpin (died 858) became king of both Scots and Picts, and his successors extended this kingdom to include the area of Strathclyde occupied by Britons, and of Lothian, where there were also Anglo-Saxon settlements. The Picts disappeared from history and the Scots spread their language, Gaelic, over most of their new kingdom, from then on to be called Scotland.

The kingdom was Christian, for the Scots had come from Christian Ireland and the Picts had been converted, partly by the mission of St Columba (521-97) [3]. It did not include all of modern Scotland, for the northern and western islands, Caithness and parts of the southwest were held by a new group of invaders, the Vikings from Scandinavia. These men had started raiding in the late eighth century, and made settlements in the ninth. Their mark in Scotland survives in placenames, and ruined buildings. It was not until the mid-1200s that a Scottish king, Alexander III (reigned 1249-86), defeated a king of Norway and took over the western isles. The northern isles remained under Scandinavian rule until the fifteenth century.

The monarchy and feudalism

The monarchy gradually developed its own institutions. For a time the succession moved between two related lines of kings, but with the succession of Duncan I (died 1040) in 1034 an attempt was made to confine it to a single direct line. Duncan was defeated by his rival, Macbeth in 1040, but his son Malcolm

III (c. 1031-93) regained the throne in 1058 and established direct succession. Malcolm married Margaret (c. 1045-93), an English princess, initiating two centuries of frequent royal marriages between the two countries. Their youngest son, David (1084-1153) [4], who became king in 1124, had spent much of his youth in England and held the earldom of Huntingdon. As King of Scotland he brought some Norman barons and friends from England and settled them in fiefs in southern Scotland. His long reign is important not only for this but also for the start of medieval monasticism in the country.

Succession was still not entirely assured, so to ensure peaceful inheritance David, when his only son died, took his 11-year-old grandson Malcolm round the kingdom to be proclaimed as his heir [Key]. Malcolm IV (reigned 1153-65) and, following him, his brother William the Lion (reigned 1165-1214) took David's policy of feudalization further, and William spread it to central and northern Scotland. Feudalism provided the kings with mounted knights in time of war and established clearly defined

CONNECTIONS

See also

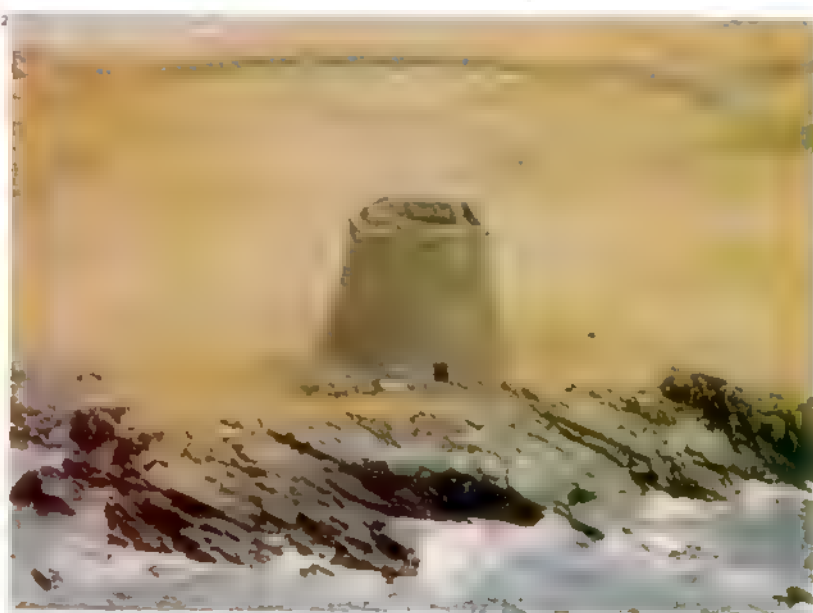
1000-1100

1100-1200

1200-1300

1300-1400

1400-1500



1 The Antonine Wall, the northernmost boundary of Roman rule in Britain, was built in the 2nd century AD. But even before the end of the century it had been abandoned by Roman forces

under pressure from invading Pictish tribes. This monument, from where the wall meets the North Sea, shows a Roman horseman riding down four naked tribesmen armed with spears, swords and shields.

2 This defensive tower or broch, built of flat stones without cement, still stands more than 12m (40ft) high on the island of Mousa in the Shetland Isles. Its thick walls offered a safe refuge from

raiders and contained dwelling rooms and galleries. There are more than 500 known examples of brochs scattered along the coast of north Scotland, some dating back to the 1st century AD.



3 Iona church stands on the former site of St Columba's monastery (founded in 563). It was from here that Christianity was first carried by Columba to the Scottish mainland.

4 The impulse that David's founding of burghs gave to Scottish economic life is symbolized by the fact that his were the first coins to be minted by a Scottish king. Under his administration, trade and commerce flourished.



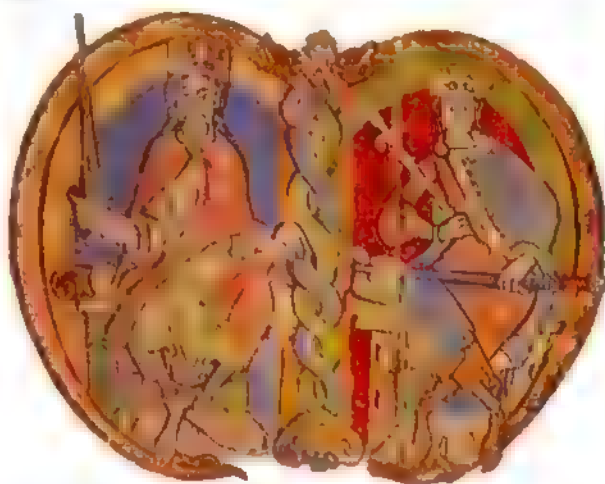
obligations. The new office of sheriff gave them administrators for a wide number of tasks. The founding of monasteries brought Scotland into the important religious movement of the twelfth century.

In spite of close marriage ties and cultural links with England, and the fact that some Scottish barons held land in England too, peace between England and Scotland was not firmly established. The border between the two long remained unstable, under David I Scotland controlled Northumberland, Cumberland and Westmorland. Its claim to these countries was formally abandoned only in 1237. Successive kings on one side or the other of the border attempted to enlarge their kingdoms by conquest.

Rebellions and the War of Independence

The male Scottish royal line ended with the sudden death of Alexander III in 1286. It was arranged that his Norwegian granddaughter should succeed and be married to the son of King Edward I of England (reigned 1272-1307). On her death in 1290, the Scots left the decision about the succession to

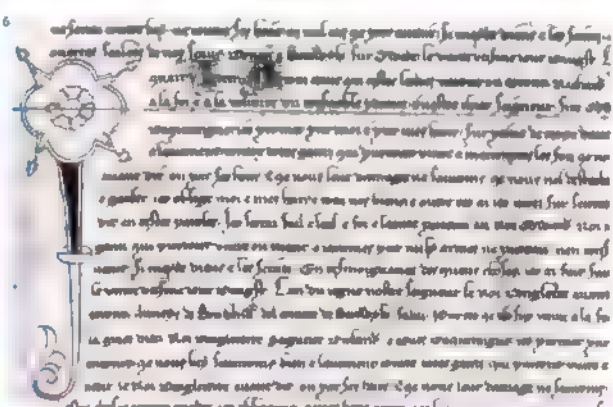
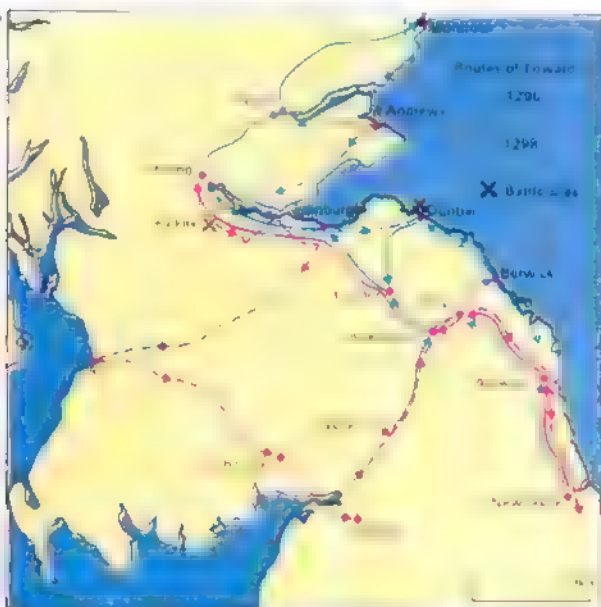
Edward. He chose John Balliol (reigned 1292-96), the best claimant by feudal law but attempted to dictate to the new king. This led to an unsuccessful rebellion in 1296 [5] invasion by Edward [6], the resignation of Balliol and the removal of the Stone of Scone on which Scottish kings were enthroned - to Westminster. For a time Scotland appeared to be conquered. But in 1297 a knight, William Wallace (c. 1270-1305), launched another and more serious national rebellion, which was not suppressed for several years. In 1306 came a third rising, ultimately successful, by Robert Bruce (1306-29) [7] whose grandfather had been a claimant against Balliol in 1291. In the long War of Independence Bruce taught the Scots how to avoid pitched battles, dismantle castles and rely on the inability of the English to sustain an army for long so far from home. Finally he defeated Edward II (reigned 1307-27) in the Battle of Bannockburn in June 1314 [8]. English claims to Scotland were not ended and the two countries were often at war during the next three centuries, but Scottish independence was proved at Bannockburn.



David I (left) and his grandson Malcolm IV who succeeded him as a young boy, are shown on this 12th-century abbey charter. With David's death

the country had been transformed through the widespread introduction of feudal Anglo-Norman ways of life, a policy continued under Malcolm.

David had to have Malcolm proclaimed as his rightful heir because there were other claimants to the throne by earlier rules of succession.



5 The "Ragman Roll" records those Scottish nobles and landholders who swore loyalty to Edward in his campaign of 1296 recognizing him as their king. Robert Bruce appears on it but not William Wallace. Later Bruce was to join Wallace in his unsuccessful rebellion submit again to Edward and finally rebel again and emerge victorious at the fateful Battle of Bannockburn.

6 In 1296, Edward I invaded Scotland to put down Balliol's rebellion. After sacking Berwick and Dunbar he easily took other castles and towns, but resistance continued to the end of his reign in 1307.

7 Robert Bruce was crowned King of the Scots in 1306 but within three months he had been defeated by an army sent by Edward I. It was not until 1309 that Bruce had gained enough power to hold a parliament - then his guerrilla tactics were gaining the upper hand against the English forces.

8 The Battle of Bannockburn was a resounding victory for the Scottish forces under Robert Bruce. The two sides met as the English troops attempted to relieve Stirling Castle. But Edward II, unlike his father, was neither a good general nor a man of determination, and the Scots outnumbered three to one outmanoeuvred the English.



Wales to the Act of Union

The Welsh language and nation came into existence being with the expulsion of the Goidelic (Irish) Celts in the fifth century AD. The Welsh were slow to establish stable political and social order, but by the tenth century there had emerged uniquely Welsh institutions, codified by Hywel Dda or Hywel the Good (died 950). [3] Threatened by the Saxons, encroached upon by the Normans and finally conquered by Edward I, Welsh nationalism smouldered and flared, notably in the rebellion of Owain Glyndwr, or Owen Glendower (1359-1416).

The creation of a Welsh kingdom

Evidence from Cuat's Hole at Paviland in Gower proves that Wales was inhabited in Palaeolithic times by cave-dwelling hunters.

After 8000 BC and until about 1000 BC Iberian migrants settled along the coast. Between 1000 and 500 BC the Celts penetrated Wales, bringing with them Druidism and the basis of the Welsh language.

The Celts remained the power in Wales until the arrival of the Romans in AD 43. Roman rule was largely military [1], and

their chief interest lay in the Welsh mineral deposits, but they established a number of urban communities which exerted a civilizing influence [2]. With the withdrawal of the Romans at the end of the fourth century, Wales was rent by the struggle for power between the Brythonic (native) Celts and the incoming Goidelic (Irish) Celts. Largely through the efforts of Cunedda (flourished early fifth century), who founded a number of dynasties and the new kingdom of Gwynedd [Key], the Irish were expelled. In the fifth and sixth centuries Christianity came to Wales, brought by such men as St Illtyd and St David.

Anglo-Saxon incursions during the seventh and eighth centuries greatly hindered attempts to achieve political unity in Wales. The limits of Saxon colonization of the Welsh borders are marked by Offa's Dyke, constructed in the mid-eighth century. The reigns of Rhodri the Great (died 877) and Hywel Dda established a sound political and social framework, but the greatest measure of success was achieved by Gruffudd ap Ilywelyn (died 1063) who fleet-

ingly held sway over the whole of Wales.

towards the end of the eleventh century. Norman invaders seized control of large parts of Wales and consolidated the conquest with powerful castles [4] built at strategic points in the March of Wales (central and eastern Wales). But the princes of Gwynedd resisted the incursions and in the twelfth century presented a strong challenge to the English Crown. Llywelyn the Great (died 1240) began to weld the Welsh territories into a feudal state, and his grandson Llywelyn II ap Gruffydd (died 1282) was able to assume the title Prince of Wales and was recognized in it by Henry III of England. In 1267 Henry's successor, Edward I, was less easily defied. He conquered Gwynedd in 1277, humbled Llywelyn and restricted his domain to west of Conway. Following Llywelyn's death in 1282 Welsh political independence came to an end.

English rule and Welsh discontent

The Edwardian conquest destroyed the social system of five orders established by Hywel Dda. The *breinin*, or king, with the

CONNECTIONS

See also



1 Caerleon upon-Usk (Roman Isca) was with Chester (Deva) the largest legionary base in or near Wales. The view shows the stone amphitheatre at which soldiers of the 6th Augustan Cohort might watch enter tainments or military demonstrations. The amph theatre stands outside the fortress built in AD 73.



2 The tiny 4th-century Christian chapel here, shown **reconstructed** at Caerwent (Roman Venta Silurum) is the sole archaeological evidence of Christianity in Roman Wales. Venta Silurum was a tribal capital situated in the better developed south-east and it was a urban centre of this kind that attracted British Christianity, had modest ports and



3 This silver penny
was made by Hywel
Dafydd the first Welsh
king who was born
in this one bore the
word "Hywel"
On King Hywel thus
reigning over the
Welsh he ordered his
people to make

Hywe Dda earned his
title at the Good
by by, when
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4 Pembroke Castle is typical of the Norman castles built in Wales. It was constructed originally as an earthwork motte, or mound, topped by a wooden tower, by Arnulf de Montgomery (fl 1093-1102) in the revolt of

1094 when the Welsh severely defeated the Normans, it survived two sieges, and was almost the only castle in Wales not to fall. It subsequently became an important base for the reconquest of the country. It was rebuilt

With a round keep & stone by the tower. W. 13m. Mar. 1511. E. 13m. 1511. 1219. Extended in the 13th century. It was much damaged in the English Civil War and greatly restored in the late 19th century.



S The head of the last independent Prince of Wales, a weary 67-year-old, was borne through the streets of London after he was killed in a skirmish in 1901. A weary Welsh first-class footballer, a clever diplomat, he was the last prince and first

treater" as a sovereign
by Henry and
by the king. The
king's wife, who
died was the queen,
but he was bound to sup-
port the foreign
kinship and pride. At
the death of the
king, the king's
one chronicler wrote
and with the king.

Triumph of the Church

The years from the accession of Gregory VII in 1073 to the removal of the Papacy to Avignon in 1309 saw the highest achievements of the medieval Christian Church in all its spheres of activity. Western Christendom could genuinely be seen as a unity with about 500 bishoprics all working as part of an international papal system that became ever more organized and powerful. Roman Christianity laid the ground rules for everyone in European society, rules from which only the Jews were exempt. The twelfth and thirteenth centuries also saw the triumph of Gothic architecture and decoration, an achievement paralleled by the complete codification of law, knowledge and philosophy in a Christian theological context by the scholastic philosophers, St Thomas Aquinas (1225–74) in particular.

The power of the Papacy

The eleventh-century Papacy had been inspired by the example of Cluniac reform, demonstrated best in the Lenten Synod at Rome in 1074 which laid down strict rules for the appointment and behaviour of the clergy.

The following year Gregory VII formally prohibited lay investiture (the appointment of bishops by a secular ruler), which not only antagonized Emperor Henry IV (reigned 1056–1106), but generally incurred violent hostility throughout Germany, France and England [8]. The resulting battle made it necessary for the Papacy to indulge in extensive legal justification of its position and led eventually to an institutionalized Papacy that would have been abhorrent to the original Cluniac reform.

The pope claimed to be the supreme judge and moral arbiter in temporal disputes. Only in this period could Emperor Henry IV have been humbled at Canossa by Gregory VII, could so powerful an English king as Henry II have appeared at Canterbury in a hair shirt to atone for the murder of Thomas à Becket; could King John (reigned 1199–1216) have been forced to submit himself (and the English crown) as a vassal of Pope Innocent III [Key], or could Innocent IV have been able to annihilate the Hohenstaufen line of emperors in 1250.

The most imposing instrument of papal

government was the Ecumenical Council, a decision-making body of all the bishops of Western Christendom summoned to attend at the request and direction of the pope. There were no fewer than seven such councils during the years 1123 to 1312.

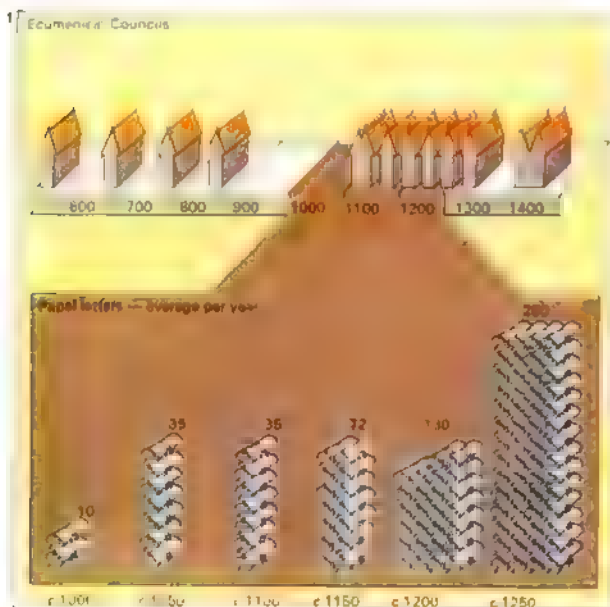
Papal administration

The growth of the Curia, the administrative focal point of the Vatican, also led to its increasing use as an international court of law. By the thirteenth century the ecclesiastical nature of the Papacy was at times overshadowed and popes such as Innocent IV (reigned 1243–54) were lawyers and administrators rather than religious leaders. The Papacy became increasingly embroiled in international politics, a development which culminated in its forcible transference to Avignon by the French monarchy from 1309 to 1377 [10].

In contrast to the growing complexity of papal administration there was a wave of reforms within the religious orders, all of which were based on piety, simplicity and austerity. Despite the Cluniac reforms, the

CONNECTIONS

See also
The rise of medieval
Christianity
The church in
medieval England
Romanesque art of the
11th century
The Holy Roman
Empire
The Gregorian
Reform



1 Ecumenical councils, meetings of representatives of the whole Church, reached a peak in the 1100s and 1200s. As the Roman Church established its role as religious authority and arbiter of political

events its administrative function developed, the ecumenical council grew and litigation at the Roman courts increased as did the correspondence of the Curia, the judicial, legislative and administrative

offices of the Papacy. Papal correspondence, a record of ecclesiastical intervention, grew from 130 letters during Adrian IV's Papacy (1154–9) to 3,646 during John XXII's (1316–34).



2 This miniature of St Bernard of Clairvaux (1090–1153) being nourished by milk from the breast of the Virgin Mary is taken from a 15th-century Venetian Cistercian breviary. It exemplifies one of

the chief tenets of St Bernard's teaching: an almost sentimental devotion to the mother of God. The reverence of Mary was one of the striking elements of popular piety in the 12th century.



3 The Decretals of Gregory IX, the manuscript from which this miniature is taken, show the importance attached in the 13th century to the doctrine of transubstantiation. This was made the

official teaching of the Church by the 4th Lateran Council (1215) which also prescribed annual confession. Gregory IX patronized the new monastic orders and canonized Dominic, Francis and Anthony.



4 The pilgrimage was the "package tour" of the Middle Ages, pious Muslims went to Mecca just as devout Christians sought to go to Rome, Compostela or Canterbury. The pilgrimage was at once the fulfilment of an active religion and also the experience of a lifetime. In the early Middle Ages the focus of Christian pilgrimages was Rome, but the gradual appearance of famous relics around the Western world led to a proliferation of provincial shrines, the most famous of which was that of the body of the apostle James at Compostela in Spain. The pilgrimage route to Compostela became a thoroughfare along which many famous Romanesque churches were constructed.



5 The Dance of Death or danse macabre shows death in the role in which he appeared in late medieval popular mythology. He was seen to be an immediate tangible threat, a maleficent joker. Although many of the precepts

of Christianity which are emphasized today appear to have been ignored in the early Middle Ages, it was the common religion of all in the West, and death for the Christian was the consummation of life. Death was therefore prominent in con-

temporary hag ography and was personified in the popular religious mystery plays. Awareness of death was intensified by the various catastrophic plagues of the 14th century, especially the Great Plague of 1348 which depopulated Europe.

Benedictine Order had lost its pious intensity by the early twelfth century. The constitution of the Cistercians, the *Charta of Love*, written by St Stephen Harding in 1119, was an adaptation of the Benedictine Rule based on a denial of ostentation and an austere life located away from centres of population. The response to this rigorous life of prayer was overwhelming and 530 Cistercian houses had been established by 1200. Another offshoot of the Benedictine system were the Carthusians, founded by St Bruno at the monastery of the Grande Chartreuse in 1084.

There were many other new orders in the twelfth century – Augustinian canons, hermits, Hospitallers, crusading orders, Templars and organizations for the visitation of the sick and the imprisoned. The ultimate in clerical reform was the foundation of the Friars [7]. St Francis of Assisi (1181–1226) and St Dominic (c. 1170–1221) both stressed that their followers should take vows of complete poverty, and that neither individuals nor the order as a whole should possess any property. Friars were by definition to live by the work of their hands and, if necessary, by begging.

They were to preach and exhort and to set a visible example of self-denial. By the fourteenth century, however, the orders denied their founders' intentions, held communal property and became part of the structure of the Church.

The twelfth and thirteenth centuries were ages of secular piety and involvement with the Church as well as clerical reform. The Crusades were central to religious activity as were pilgrimages to Rome, Compostela in Spain [4], Canterbury and local shrines.

Persecution of heretics

The ugly side of the universality of papal pretensions and the increasing extremes of the religious life was the persecution of heretics [6]. The Jews, as non-believers, were largely left alone at this time, but heretics, as deserters from the true faith, had to be reconverted, by force if necessary. Among those heretics were the Albigensians, who held all material things and social life to be evil, thus presenting a challenge both to the Church and to the stability of society. The Albigensians were destroyed in the 1200s.

Pope Innocent III (c. 1160–1216), a brilliant jurist, was trained at the universities of Paris and Bologna. His ambition and administrative gifts brought the medieval Papacy to the height of its powers. Through the legislative power of

the papal Curia, his tight control of ecclesiastical affairs throughout Europe and his influence in imperial elections, Innocent fulfilled for a time the papal ambition of directing the affairs of the entire secular European world.



6 Some followers of Amalric of Chartres were burnt at the stake in the early 12th century for believing that those in love with God partake in His perfection and are proof against sin. Tred

ditionally it was the business of the Church to preserve orthodoxy, the ecclesiastical authorities, the Dominicans and Franciscans in particular, investigated heresy, the secular powers punished it.



7 The religious orders increased greatly in number as a result of popular piety and the growing complexity of Church organization. The Cistercian reformers of the 10th century merely tightened the

Benedictine Rule. The Carthusians (A) founded by St Bruno in 1084, and the Cistercians, the 'white monks' (B), lived according to new rules that emphasized the virtues of self-denial and the

strictest religious observance. The orders of friars, the Dominicans (C) and Franciscans (D) were a new kind of wandering priest who travelled Europe preaching, possessing neither property nor

money and relying on begging for a livelihood. The original appeal of St Francis, both ascetic and poetic, was unacceptable to the Papacy, because a large body fulfilling an important religious func-

tion needed corporate property if it was not to become socially subversive. Despite opposition from loyal followers, the friars soon obtained property and became an integral part of the Church.



8 The question of who should invest bishops caused a rift between popes and secular rulers. Great local wealth and political power went with the office of bishop, the sort of wealth with which any ruler would want to reward or bribe a useful

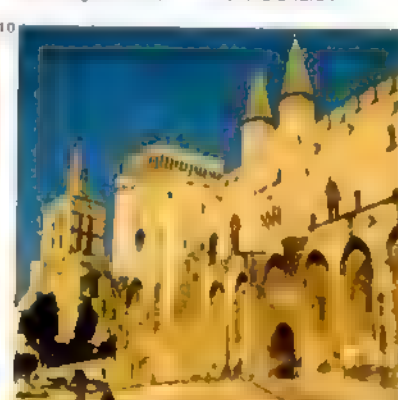
servant. This bronze depicting Emperor Otto I investing Bishop Adalbert of Magdeburg in 962 demonstrates the imperial position at its strongest. The new bishop is seen receiving his authority from the secular ruler, not the pope.



9 This fresco illustrates the triumph of the Church as seen through the eyes of the late 14th-century Florentine artist Andrea di Buonaiuto. It is in the Spanish Chapel of the church of Sta Maria Novella in Florence and is a contemporary

commentary on the development of the structure of the Church into a vast international organization with a role in administration and religious teaching. Sta Maria Novella is a Dominican church and the picture emphasizes the role of

the Dominican friars, many of whom had been made permanent commissioners for the extermination of heresy, the origins of the Holy Inquisition, under Gregory IX. Dominican friars are here shown as the *domini canes* – hounds of the Lord.



10 The Papal Palace in Avignon was a more efficient centre of papal government than Rome, and it is testimony to the wealth, success and culture of the papal court in captivity. After two centuries of great power, the Papacy entered a

period of submission to temporal rulers when from 1309 to 1377 it was forcibly removed to Avignon. Ostensibly the move was to resolve the conflicts it had suffered in Rome, but the influence of the French monarchy over the Papacy increased.

European learning in the 13th century

The medieval papacy reached the height of its power, wealth and cohesion in the thirteenth century, at the same time as St Thomas Aquinas (c. 1225–74) was finishing his *Summa Theologica* (1266–73), the greatest work of scholastic philosophy

The genesis of Scholasticism

The highest achievement of medieval Christian thought, Scholasticism was an intellectual system that employed the logic or dialectic [Key], of Aristotle. In the course of the twelfth century, as Aristotle's works became available to Western scholars in Latin translation, his analytic method was applied in all fields of inquiry. The result was a revolution in the methods and content of learning which produced a coherent system of philosophy and theology and a new science of jurisprudence and which laid the first fragile foundations of experimental science.

As a growing range of Greek and Arabic philosophical and scientific texts became available, centres of learning shifted away from the monasteries and episcopal schools to a new kind of academic organization – the

university [1]. Universities were associations or corporations of masters or students that arose in a number of urban centres where the new learning was available. The earliest of them appeared early in the thirteenth century at Bologna [5]. Paris, Montpellier, Naples, Oxford, Cambridge, Toulouse and Salamanca. Such schools gave Scholasticism its name (the teaching of the "Schoolmen").

Training at a medieval university was long and arduous. It usually took six years to become a Master of Arts, after studying logic, grammar, rhetoric, arithmetic, geometry, astronomy and music. The doctorate of theology, the highest academic achievement, required about eight more years of study.

This was the age of translation, both from the original Greek and from Arabic and Jewish texts and interpretations. Much classical cosmology, mathematics and philosophy was revealed through the writings of Arabic scholars such as Al Farabi (died 950), Avicenna (980–1037) and Averrhöes (1126–98). Gradually through the works of Aristotle and Ptolemy (90–168), Averrhöes and Avicenna, the knowledge of Greek cos-

mology and medicine became available, but it was above all the ideas of Aristotle [2] that influenced the thought of the early universities. Aristotelian thought was opposed to the emphasis on divine grace in early Scholastic thought and as such incurred the wrath of the conservatives. Paris in particular was the seat of new Aristotelian learning and although the teaching of Aristotle's *Metaphysics* and *Physics* was initially banned in the schools during the thirteenth century, the prohibition was widely ignored.

Reconciling faith and reason

The crux of the Scholastic controversy was the relationship between revelation and reason. Aristotle's writings challenged the primacy of theology by asserting that rationality was the basis of knowledge, and the greatest works of this period were devoted to reconciling this apparent contradiction between faith and reason. A group of arts masters at Paris, the leader of whom was Siger de Brabant (c. 1235–81), adopted Averrhöes' view that reason and philosophy were superior to faith and knowledge from faith.

CONNECTIONS

See also

art
culture
education
religion
science



1 Cino da' Sinibaldi was a famous Tuscan lawyer and poet who died in 1336. His tomb is one of many Italian funerary monuments for academics showing the university classrooms of the later Middle

Ages. The magnificence of this tomb is an indication of the importance that Italians were beginning to accord to teachers of civil law in the Italian cities. Cino had studied at the great university of

Bologna and had worked at Pistoia, Rome, Treviso, Florence, Siena and Perugia. He was a link between the Scholastic academics of the 13th century and the humanist scholars who were to establish

the intellectual framework for the Renaissance period from the 14th century.

2 This 13th-century French miniature shows Aristotle teaching the Emperor Alexander as a child. The illustration is from the *Treasury of Brunetto Latini* (c. 1210–c. 1295), a compendium of history, philosophy and legend completed in 1265. Instruction in philosophy was thought indispensable in the training of a ruler.



3 St Bonaventure, minister general of the Franciscan order and cardinal bishop of Albano, taught at Paris with St Thomas Aquinas. First and foremost a theologian, his most widely read work was *The Journey of the Soul to God*.



4 This 15th-century miniature of Roger Bacon shows him in an scholarly pose. His intellectual curiosity seemed almost without limit, but the novelty of his interests and ideas led in the end to his imprisonment.



This provoked a fierce controversy, in the course of which Aquinas composed his famous apologia for revealed religion – the *Summa contra Gentiles*.

A more conservative defender of theology against the rationalist philosophers was St Bonaventure (1221–74) [3] who conceded that some knowledge could be gained from philosophy alone without the need of faith. Like St Thomas, Bonaventure held that a philosophical proof of God's existence could be found in the need for an original cause or motion to begin the chain of events in the universe. However, he believed that philosophy could not explain the details of revelation nor could it provide a moral framework for life.

Roger Bacon's (c. 1214–92) [4] work showed an interest in empirical observation that epitomized the growing belief in man's powers of investigation and understanding. Following the Scholastic tradition, he saw in the behaviour of material things, including the commonsense behaviour of man, a "natural law" that manifested divine insight. Consequently, Bacon believed that science

was a natural and harmonious basis for religion. But he was also a firm believer in alchemy [9], the "science" of turning base metal into gold, and in astrology, the art of telling the future through the stars.

The development of Aquinas' thought

Albertus Magnus (c. 1200–80) incorporated the new knowledge of Aristotle within an encyclopedic formula that embraced Platonism, Neo-Platonism and Arabic theology. Thomas Aquinas, his pupil, inherited this breadth of reference and consciously set out to provide a logical Aristotelian substructure for Christian thought. Aquinas took faith as the starting point and argued that everything discovered from reason could be interpreted in the light of it. Apparent conflict between reason and faith meant that the reasoning was wrong. He conceded that human knowledge depended on sense perception, and in his theory of "natural law" a body of universal moral principles that can be ascertained by human reason alone – he provided the basis for a purely rational system of ethics.

KEY



This 15th-century figure is an allegory of dialectic. Christian vices and virtues portrayed in human form throughout medieval times, were joined in the 13th century by figures representing the disciplines of the philosophers. Dialectics, the

branch of logic concerned with the rules of reasoning was first formulated in Greece by Aristotle (384–322 BC).

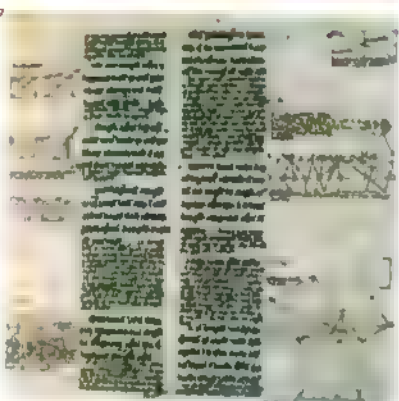


5 Bologna, one of the earliest and most famous of European universities, was noted for its law schools. The 12th century saw the emergence of student guilds which gradually became independent of the law of the city. By the 14th century, Bologna University had an organized collegiate system.

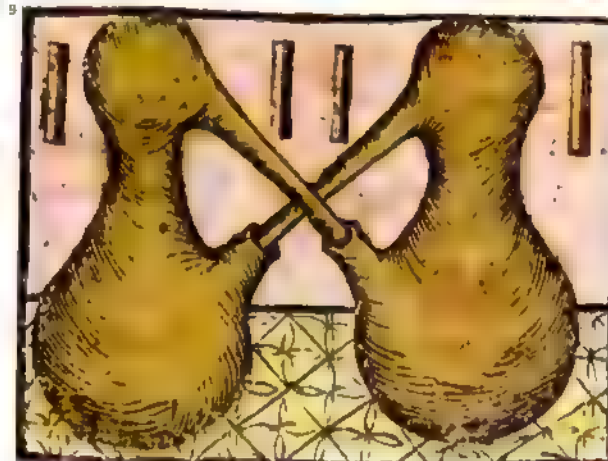


6 St Thomas Aquinas was the greatest doctor of the medieval Church and the greatest exponent of Scholasticism. His *Summa Theologiae*, the best known philosophical treatise of his time, attempted a comprehensive synthesis of reason and revelation that established him as the Church's foremost theologian. Whereas initially his Aristotelian analysis was criticized, his statements have come to be regarded as a wholly Christian and rather overbearing interpretation of man's being and actions.

7 Mathematics, like logic, played a part in the curriculum of the Scholastic philosopher, revealing through the human intellect the divine plan for the universe. Medieval mathematics consisted almost completely of a rediscovery of Greek knowledge in the field preserved and transmitted by Islamic scholars. These Pythagorean theorems are from a 13th-century treatise which is typical of the manuals of the time.



8 Notations on this 13th-century manuscript of the Roman writer, Lactantius, indicate textual criticisms common to a generation aware both of the ambiguities of classical texts and the textual corruptions that had developed over the centuries. Greek and Latin works had been translated into Syriac and back into medieval Latin. Careless transcription created more inaccuracy but greater care ushered in a new era of classical scholarship.



9 Alchemy was a pseudo-science of the Middle Ages. Although much effort went into improbable experiments (such as this one, which uses a double alembic) and into vain attempts to transmute base metals into gold, many alchemists were able chemists whose work laid the foundations of later knowledge. Like astrology, alchemy had its roots in classical antiquity and flourished in the 13th century along side more fruitful scientific work on mathematics, optics and astronomy.

Western European economy 1000–1250

Between 1000 and 1250 the economic foundation of Europe shifted to the north. The new wealth came from a rapidly developing agriculture in the northern European plain [2] between the Loire and the Elbe. Under the Romans this had been a sparsely populated forest area; now as a result of expansion, it was the Mediterranean that became a frontier zone.

An era of expansion

In this new world all the energy and enterprise of the pioneer was yoked to clearing the forests, establishing villages and marking out the routes, largely independent of the Roman system, that bound the plain together. Here and there the directing force of some powerful family or monastic community could be detected, but almost certainly most of the work was done by small family groups and peasant communities. In the progressive draining of the marshes of Lincolnshire, Flanders and the Po basin – among the most remarkable achievements of these centuries – the lead may have been given by abbays such as Ramsey or Les Dunes, but the fiercely

independent spirit of the subsequent peasant proprietors suggests that many took matters into their own hands and proceeded to drain the land themselves.

Intensive settlement of the soil implies an increasing population. In this period, without records of taxation, there is no direct evidence to measure population growth, but an indication that numbers increased rapidly comes from the twelfth-century migrations of both peasants and knights from France, Germany and Flanders to Eastern Europe, Spain, Sicily and Palestine.

Within the bounds of Western Europe the few surviving monastic estate documents give glimpses of the slow development of a farming expertise geared specifically to northern climates, such as the use of the heavy-wheeled plough (*carruca*), the harnessing of draught animals in columns and the development of the watermill for grinding corn, which gradually came into use between 1000 and 1250. By 1200, horses were shod and harnessed with a shoulder collar. More had, by then, been learnt about spring and autumn crops – wheat and rye for standard

autumn-sown cereals, but other varieties for the more rigorous climates. The use of spring-sown oats and barley for poorer soils was understood by progressive estate managers of the thirteenth century, such as the agricultural writer Walter of Henley.

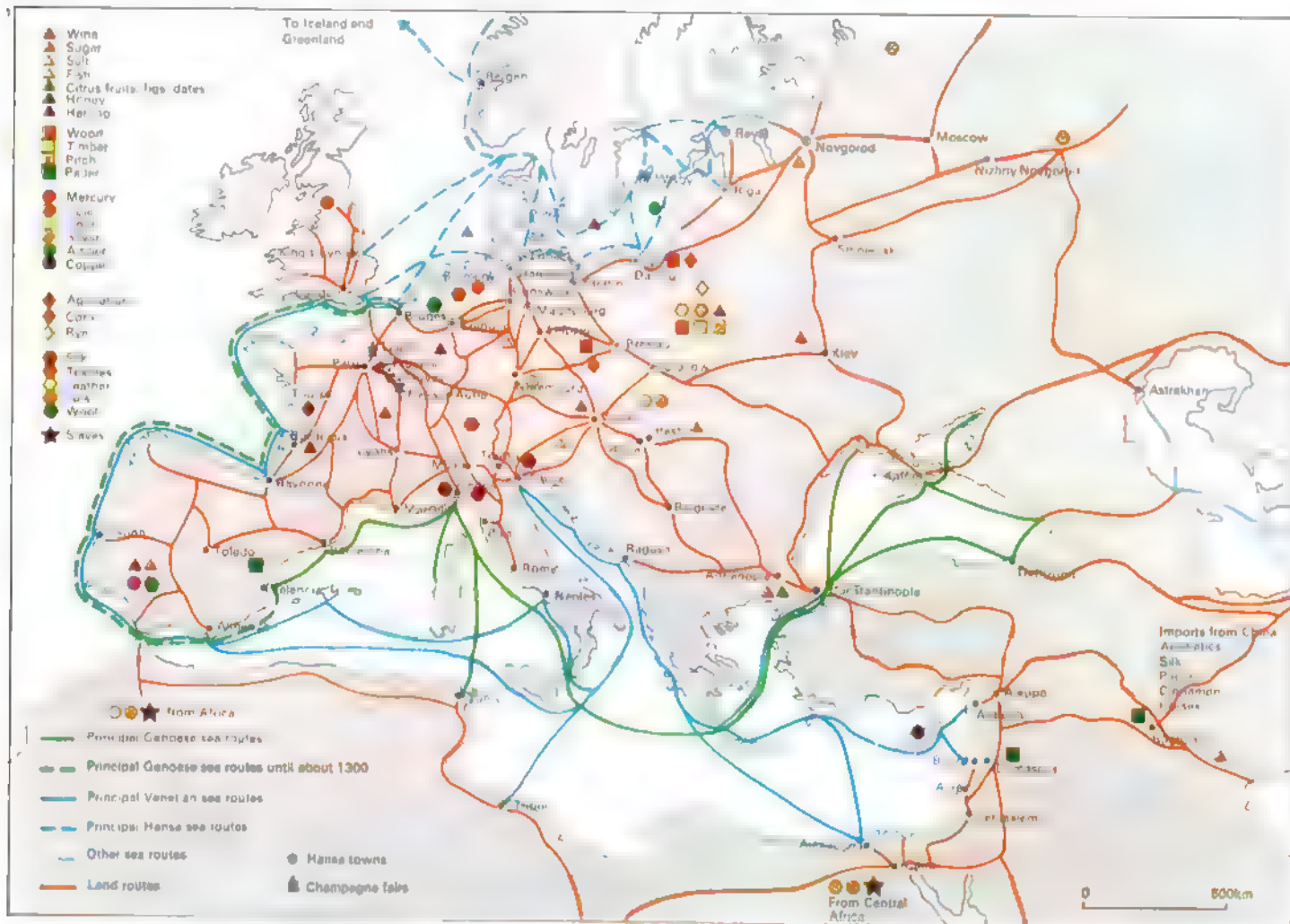
Social and economic organization

The social structure of this developing agrarian society is difficult to determine and probably varied dramatically from area to area. Where seigneurial and monastic landlords took an interest in developing their lands (and many did, especially the new order of Cistercian monks), it was common to attract landless labourers with the promise of heritable tenures, on condition that they bound themselves and their heirs to the soil. Serfdom was one way of organizing labour for co-operative work, but it is a mistake to see it as universal. The peasant “communes” of the open-field system in France and England, with their periodic redistribution of holdings, the independent holdings (*allods*) of Aquitaine and the farmsteads (*casale*) of Italy all resulted from peculiarities of local

CONNECTIONS

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1 The number of trade routes by both land and sea increased during the High Middle Ages. The most popular form of bulk transport in the early Middle Ages was by river in the 11th and 12th centuries. Land transport be-

came much easier partly because the routes were safer partly because of the increased use of pack animals. The trade of the carrier, often a native of the high Alps, had by 1250 become an integral link in Italian

commerce with northern Europe. The routes primarily linked importing centres such as the Italian and Hanse towns with the centres of production and exchange: the fairs of northern Europe and Flemish towns. But

links were also forged through Poland and Hungary with the ancient Asiatic routes. Sea routes developed dramatically during the 12th century. Mediterranean ships of the period were small, rarely more than 100 tonnes.

They usually sailed in convoy and with enterprising crews from Venice, Pisa and Genoa to most Mediterranean ports. Some Levant towns had Italian quarters as early as 1110. Subsequently the Venetians established

themselves at Alexandria and the attempts to control the trade of Constantinople culminated in their conquest of that city in 1204. The north-eastern seas had their own Viking tradition of seamanship. The trade in furs

originally carried by Scandinavians from Novgorod to the Baltic fell into the hands of merchants from the north German towns in the 12th century. The merchants soon organized themselves into a protective league or Hanse.

custom and circumstance. What is reasonably certain is that the number of such communities increased sharply during the eleventh and twelfth centuries

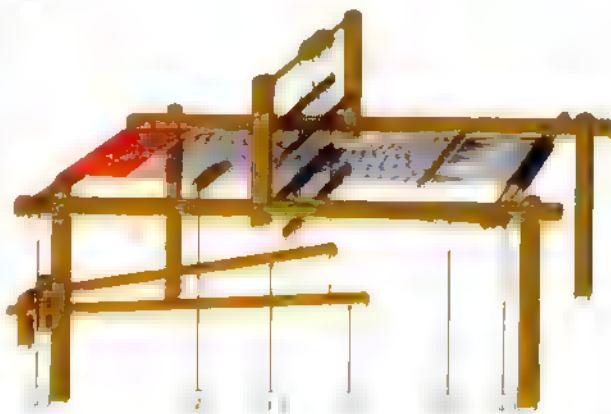
The rise of towns

The other consequence of population increase was the growing importance of towns as centres both of exchange and production. The origins of towns varied, but most of them grew up to serve local needs, as strongpoints (the *burg*) to which agricultural markets were attached, or as ports importing and exporting goods. The more intensive the settlement of the land, the larger and more numerous were the towns. The number of cities in Flanders and northeastern France – Bruges, Arras, Valenciennes, and others – reflects a high agricultural population. The burgeoning cloth production of Bruges in the twelfth century, in part depended on the farming of sheep in the Flemish salt marshes. The towns' specialized way of life needed independent institutions, the earliest guild of merchants known, that of Tiel in Holland existed earlier than 1000, but the merchant

guild as an instrument of communal government became common only in the twelfth century. The towns flourished, however, because of the vast consumer market that had developed by 1200.

By 1000 Western Europe was in sporadic but persistent contact with the East through the Baltic and Russia, and with the decline of Saracen piracy in the Mediterranean the Italian ports developed strong links with Egypt and (after 1098) the Crusading states, which enabled Oriental silks and spices to reach the West. Mediterranean trade [1], necessarily large-scale and risky since goods bought abroad were never pre-sold, gradually led Venetian merchants to develop a "capitalist" system of investment [3].

The High Middle Ages was a period of almost universal expansion in Western Europe, an underdeveloped continent ready for sustained exploitation. As conditions changed, however, the warning signs of overpopulation and overuse of the land went unnoticed until persistent famine and plague swept over the region brought a general recession in the fourteenth century.



Horizontal treadle looms, introduced in the 13th century stimulated textile manufacture: the medieval industry that employed most urban craftsmen. The less efficient vertical loom was replaced by

a machine using treadles (1) to raise or lower the lengthwise threads as the shuttle (2) passed through them. Cloth was wound on to the cloth beam (3) as thread was released from the warp beam (4)

by depressing a lever (5). About two thirds of all trade was in cloth or raw materials required for it. Most weaving was done in the Low Countries, partly by urban industry and partly by cottage labour.



2 Drainage and land reclamation was one of the most spectacular aspects of the clearing of the northern European plain in the 11th and 12th centuries. An area near St Omer in France shows how.

In the early Middle Ages, polders were diked, marshy land made fit for grazing and a system of waterways constructed. Cultivation of new lands both fed a larger population and gave

greater freedom to farmers, who paid for pioneer lands in fees rather than in services, two vital factors for the commercial and industrial expansion of the Low Countries during this period.

3 The Fondaco dei Turchi (Turkish warehouse) on the Grand Canal in Venice was built in the late Romanesque style in the 13th century. Although it takes its name from a later period of the city's mercantile development, the building exemplifies Venetian power in the first era of its commercial success. From the 11th century, Venice dominated European trade with the East and its arsenal and dock yard comprised the biggest industrial unit of the age.

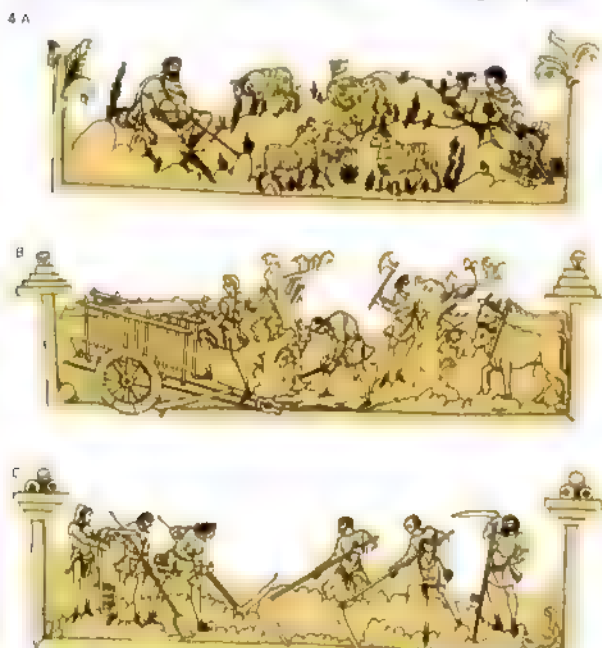


4 Illustrated calendar of seasonal activities provide the best visual evidence of medieval costume and methods of agriculture. Shown here are May: a shepherd and his flock (A), June: curing wood (B) and July: haymaking (C).

5 The grape harvest depicted in an Italian calendar shows the method of pressing the grapes with the feet, a tradition that survived in parts of rural Italy until after 1945. Wine was produced in quantity throughout southern

Europe, in most of France and in the Rhine and Moselle areas of Germany. Production methods had changed little since the days of the great Roman villas and viticulture was, throughout the Middle Ages, still the economic

prerogative of the big landowner or entrepreneur. By the 13th century a genuinely international wine trade had developed along a north-south axis with large quantities of wine being shipped in barrels by water transport.



Town life in medieval England

Town life in England re-emerged in the tenth and eleventh centuries after being practically non-existent since the departure of the Romans in the early fifth century. The medieval towns, especially London, were important as centres of trade and production and were also the cradles of a sophisticated non-feudal political consciousness.

The earliest towns

There were a number of towns in England before 1066 which formed part of the tenth-century kings' coherent plan of local government and defence. They were often planned towns: excavations at Winchester have revealed the grid plan of the tenth-century streets, and it seems that Oxford was consciously populated in about 910 by drafting villagers in from nearby communities. Although they were really fortified villages rather than towns, with agriculture far more important than industry, towns were nevertheless the means by which a measure of peace and government was imposed.

Some 52 "towns" were described in the Domesday Book (1086). In the twelfth cen-

tury, growing international trade and a rising standard of living combined to multiply their number and to give birth to new crafts. The *negotiores* (general traders) of the past gave way to specialized occupations organized in guilds. The purveyors of luxury goods, the vintners, goldsmiths and pepperers, were the earliest specialized trades in London. By 1191 representatives of a score of different trades witnessed a charter at Oxford, only a middle-sized town. Guilds [7] enabled the towns to maintain their supplies and markets: smaller towns began with a single "guild merchant" of all the trades, but during the thirteenth century humbler craft guilds [6], of weavers, bakers, fishmongers or smiths also emerged to claim their share in city government. These craft guilds looked after their members' interests whereas the guilds merchant organized the fundamental trading and market privileges of the towns [3].

Life in the towns

Crowded sites soon made necessary a new style of life: closed street frontages, houses with their narrow ends to the street stretching

far back into their gardens, created the town house and the modern townscape [Key, 1]. Warehouses, counting-houses, shops and living-rooms shared many cramped sites in burgeoning towns such as Southampton. The streets themselves were narrow, because space was valuable: ordinances frequently forbade householders to encroach upon them. Open gutters in the middle of streets carried much refuse, although nearly every house had a cesspit as well. By 1300 town authorities were beginning to improve sanitary conditions: pavements were engaged to restore the surface of the streets, and butchers were generally forbidden to slaughter livestock except in "shambles" situated safely beyond the walls [9].

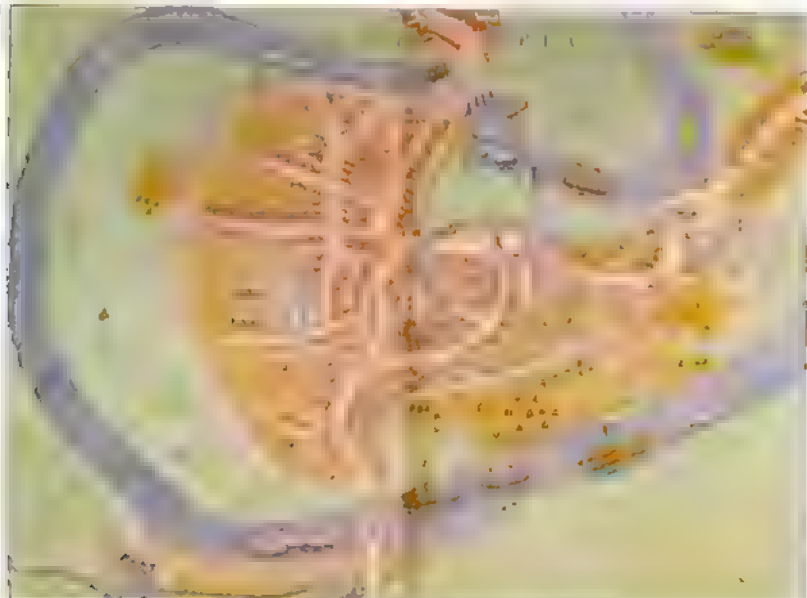
The new communities where men could suddenly rise to great wealth and which had relative political freedom were naturally conscious of their difference from the more static rural society. At first they were dominated by small oligarchies made up of men in the luxury trades who had great influence at court. In their confident hands London and Oxford tried in 1191 to become communes.

CONNECTIONS

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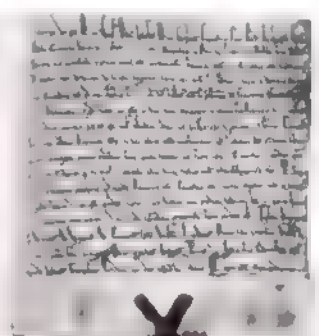
Medieval towns and cities

Medieval towns and cities



1 Shrewsbury, in a 16th-century map appears crowded round its market square. The castle was first built in 1070 and the town obtained its first charter in 1189. In the great period of medieval town life, before 1350, many towns outgrew their walls. The walls in most English towns were not built until the middle of the 12th century.

2



2 John granted a charter of incorporation to London, England's largest town, in 1215. From the mid-12th century, London's citizens, who claimed even the right to elect the king, were seeking and winning privileges of self-government. John's charter confirmed the citizens' liberties and permitted the election of a mayor.



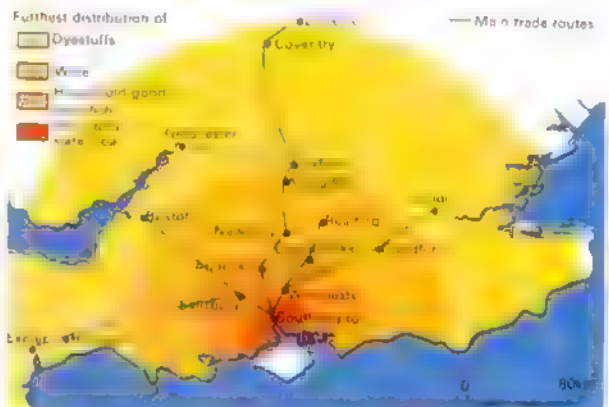
3 Markets were the life-blood of a medieval town, and they provided an outlet for peasants from the surrounding countryside to sell their own goods, as well as being the centre for

the inland distributive trade in more luxury products. They were situated in regular places in each town, often marked by a market cross or a covered hall. Markets could be violent places,

and there were strict regulations governing them, particularly on the standards of the goods sold. Towns hired officials such as the assayers of ale and bread, and offenders suffered

heavy fines. A successful market could be an important source of profit for the town or the baron who set it up. The great period for the creation of market rights was the late 12th century.

4



4 Southampton was an important town for both imports and exports in the Middle Ages. The network of roads was used to take these goods to inland towns. Goods from Southampton were found as far away

as Leicester, 220km (137 miles) to the north. Only valuable and easily-carried goods were taken so far. The quality of the roads, particularly in winter, was not good, and although the trading towns tried

to ensure that bridges on the vital routes were kept in good repair, responsibility for road upkeep was in the hands of each parish. As a result, many goods were carried by water whenever possible.



independent of the surrounding shires, and many towns had mayors, aldermen, a common council and a town clerk by the middle of the thirteenth century [2]

But just as remarkable as the emergence of these towns was their vitality and tenacity in the face of radical social change. In the late thirteenth century the great urban oligarchies in London, Lincoln, York and other towns were swamped by the practitioners of the lesser guilds, many of whom were immigrants from the country. But although they displaced the old families, sometimes violently, these new families everywhere maintained and developed the old privileges, traditions and organizations of the towns

Social unrest in the towns

Urban upheavals were common, especially after 1300. Many towns such as Louth and Stamford, dependent on their production of cloth, declined into small market towns when the introduction of the fulling mill made it more practical to make woollen cloth in the villages. The Black Death (1348–50) hit especially hard at the densely packed towns

A general movement of wealth and population from the Midlands to East Anglia and the south-west left behind the shells of once prosperous communities: at Oxford falling house rents after 1325 attest the declining population [8]. English towns were spared the violence of fourteenth-century Ghent or Florence, but the rising of the peasants in 1381 found allies in York, Norwich, and especially in London. And thieves at all times could find a ready refuge in the slums outside the city walls

Only London could muster a mob with the violent potential of the urban masses in Paris or other European towns, but on several occasions in the late fourteenth century that London mob proved able to frustrate the government. For a few days in 1381 in association with the peasants led by Wat Tyler (died 1381), it managed to render the government completely powerless. Urban life in England was precarious, yet it remained attractive. Trade, law, and government itself could not function without towns, and by 1500 they had become a vital element in all other English institutions

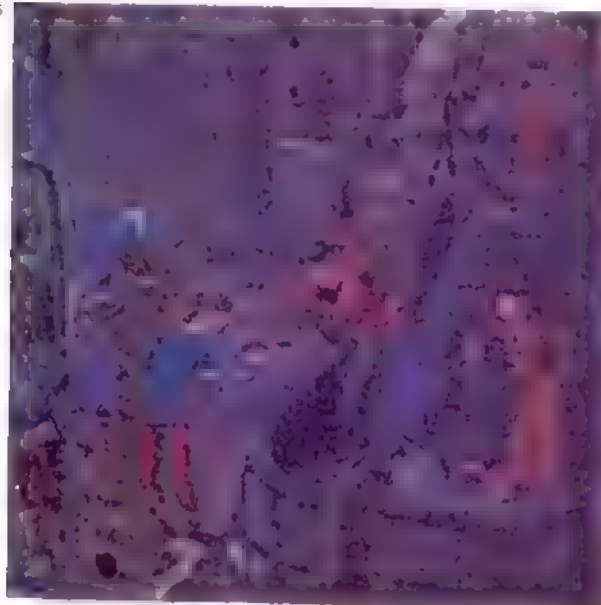
KEY



English medieval towns were often as crowded as this illustration of Paris suggests. The shops were

little more than market stalls, and each trade was concentrated into a specific street. Most

stable towns grew out of markets, others, relying on single industries, were liable suddenly to expand or disappear



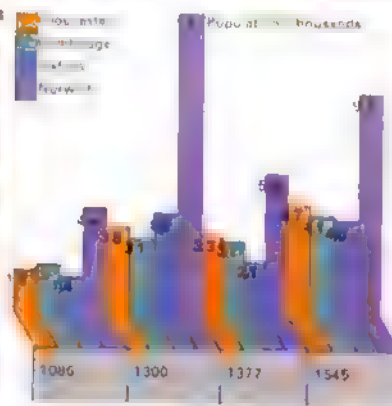
7 The Guildhall of the Merchant Adventurers at York was built in about 1380 and served as a meeting place for the guild. The Merchant Adventurers became one of the greatest guilds in York as the trade in cloth overtook that in wool in the later Middle Ages. Cloth exports, unlike wool, were not bound to any staple and a merchant community emerged ousting the foreign traders from their control of the business. Like most other guilds, the Merchant Adventurers was not purely economic in function, but had a partly religious and charitable purpose, because it undertook to support any of its members who became destitute. By the 15th century the guild had many branches throughout the Low Countries



5 The export of wool was vital to the economy of many towns in the early Middle Ages, because the Flemish cloth industry came to rely on English wool in the 13th century. But when the English cloth industry itself grew up, based largely on the villages, many towns contracted. In the 16th century several towns, such as Bradford in York shire and Devizes in Somerset, prospered on cloth, but most of the towns that had grown in the 13th century now stagnated. Their political importance declined as the economy faded after 1400 and political hegemony reverted to the nobility. Henry VII tried to revitalize town life after 1485 by stimulating trade overseas



6 The craft guilds held examinations for apprentices before they were admitted to the guild as master craftsmen. Apprentices were required to learn their craft for seven years, and after qualifying they served as journeymen, traveling the country until they could afford to set up in business permanently. One of the most important functions of the craft guilds in the early 14th century was to maintain the standard of workmanship, and they adopted the concept of examinations from the universities. During the 15th century, when many towns were in decline, guilds generally tried to limit the number of apprentices by restricting entry to the sons of existing craftsmen



8 The population of medieval towns is hard to determine exactly, but it is clear that most towns lost between a third and a half of their population in the Black Death. This fall was only slowly reversed in the later Middle Ages

9 The Shambles, York, is one of the few remaining medieval streets in England. It was originally devoted to butchers' shops. Despite legislation that butchers should only work outside the towns, the regulations, as here, were often ignored



The Church in medieval England

The medieval English Church, like the Church elsewhere in Europe, had little spiritual or organizational unity, but was a tangled association of virtually independent bodies. It included monasteries and cathedral chapters, bishops and their officials and individual clergy, great international orders such as the friars, all catering more or less directly to the spiritual welfare of the country, and all under the general jurisdiction of a distant pope. It was a tinder-box of conflicting rights and privileges, careerism and spirituality.

Shrines and monasteries

To the layman in the Middle Ages the Church was a collection of shrines such as Canterbury, which had relics of St Dunstan and St Thomas Becket [1]. Bury, with the body of St Edmund, and St Paul's, London, where the image of St Wilgeflot ("St Uncumber") was invoked by women who were tired of their husbands. Powerful monasteries [8] or cathedral churches grew up round these shrines, served by clerks or monks jealous of their privileges and profiting from the pilgrimages made to them.

Church authorities respected these popular cults but also attempted to impose order upon them and to raise the spiritual quality and education of the clergy. The first attempt, in the tenth century, was monastic. By 1200 the older monasteries were no longer the powerhouses of spiritual renewal but they remained the most distinctive and often the best-loved of English religious institutions. Although varying greatly in size they all shared a strong vested interest in their landed rights and, as a result, kept a weather-eye on political affairs. They had a slow, agrarian pace of life, and a conservative dislike of religious enthusiasm and novelty. In the twelfth century, many austere houses including those of the Premonstratensians, Carthusians and especially Cistercian orders were founded to regenerate spiritual life [3].

At first the monasteries maintained their corporate discipline. The monk's day began before dawn, and was devoted primarily to prayer, with labour in the fields taking up the rest of the time. According to the chronicler William of Malmesbury (c. 1095–c. 1143) monks abstained from meat, ate only one

meal a day in winter, never wore fur or linen garments, and were sparing in speech. The abbot observed the same austere customs as his monks, although he dined separately from them, "with the strangers and the poor". In the later Middle Ages many orders of monks acquired a reputation for avarice, and although monks were rarely guilty of the debauchery portrayed by Protestant and anticlerical propaganda, comfort gradually replaced austerity after 1200.

The bishops and reform

The second attempt to organize the Church for pastoral work was episcopal. It began in the late eleventh century in the atmosphere of reform engendered by Pope Gregory VII (reigned 1073–85). Archbishop Lanfranc (c. 1005–89) of Canterbury and his successor St Anselm (1033–1109) set up a regular organization of the English dioceses, and by 1150 the forms of diocesan organization, were clearly established. The beginnings of the canon law of the Church made possible stricter control of the various offices.

A spate of parish church building be-

CONNECTIONS

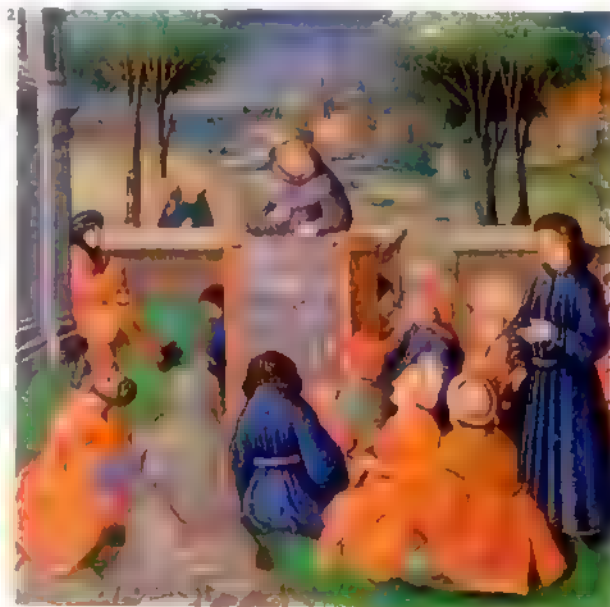
See also

11th century
12th century
13th century
14th century
15th century
16th century
17th century
18th century
19th century
20th century

1 Thomas a Becket (c. 1118–70) was killed by followers of his former friend Henry II (r. 1154–89). As Archbishop of Canterbury he defied the king's attempt to set up a centralized legal system that would cover members of the Church as well as the laity. Becket had served previously as chancellor to Henry throughout the period the rulers of Church and state were often linked personally, even though their interests were kept carefully separated. Henry underwent many penances for the murder of Becket, who was canonized in 1173 and whose tomb in Canterbury Cathedral became the object of pilgrimages until the Reformation.



2 The friars came to England in the 1220s with the intention of revitalizing spiritual life by preaching and living in poverty. They were bound to no particular convent (although friars' houses were set up soon in many towns) and stressed pastoral work. Encouraged by Bishop Grosseteste they were pioneers of philosophy and theology at Oxford University and included two of the finest medieval philosophers: Duns Scotus (c. 1264–1308) and William of Ockham (c. 1300–47). They also transformed the art of preaching and used a vivid outspoken style to attract large congregations. They were prepared to attack injustice and defend the interests of the poor.



3 Rievaulx Abbey was a Cistercian monastery founded in 1131. These monasteries were set far from civilization to encourage austerity, but they grew rich on the profits of wool production, which financed their great building programmes.

In the later Middle Ages the Cistercians had become the principal butt of anti-clerical propaganda aimed at the monasteries, they were seen as an overtly political and wealth-seeking organization, whose original puritanism had become entirely lost.

4 Almshouses, such as this one at Burford, Oxfordshire, became common in the 14th century, when the rural economy ceased to grow and urban poverty became a palpable problem. Charity had always been a charge upon both monasteries and

bishops, and now hospitals, almshouses and religious fraternities were set up specifically to care for the victims of destitution and disease. The founders were often secular and ranged from the high nobility to prominent townsmen.

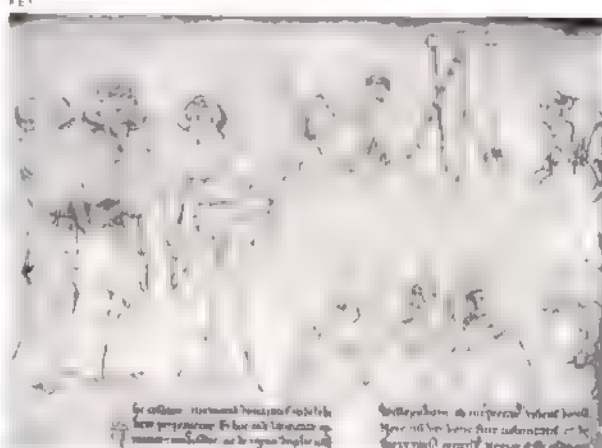
tween 1100 and 1250 [Key] provided most communities with at least the rudiments of religion, and in the early thirteenth century the first attempt was made to regulate the religious life of the laity. Stephen Langton, Archbishop of Canterbury (1207-28) and Robert Grosseteste (c. 1175-1253), Bishop of Lincoln (1235-53), proclaimed that the laity should take common and private confession at least once a year.

An ambitious and wide-ranging attempt to provide an educated clergy was necessary: the ignorance of many parish priests was an evil often bewailed by Grosseteste. The new universities at Oxford and Cambridge became, under Grosseteste's influence, the breeding ground of a small group of highly educated churchmen [2]. These men naturally came to occupy the commanding heights of the Church, by 1400 nearly all the bishops had attended a university and many parish priests, too, were educated there. The stream of educated graduates came to occupy posts of responsibility in the state as well as the Church and throughout the Middle Ages high promotion in the Church often

depended upon previous service to the Crown [9], and vice versa. As a result, the question of who had ultimate authority to appoint the higher officers of the Church whether it was the king or pope, was a major source of contention, as was secular infringement on clerical jurisdictions.

Wycliffe and Lollards

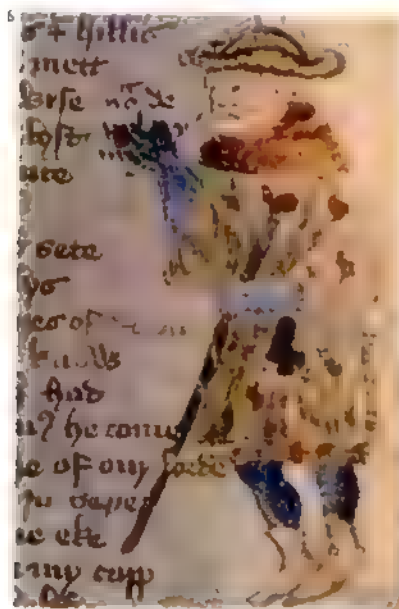
Many of the graduate clergy, as well as laymen, were uneasy about ecclesiastical wealth [5]. The most determined of the later movements of reform was the work of the fiery Oxford theologian and royal clerk John Wycliffe (c. 1328-84). Wycliffe saw the organized Church as a creation of Antichrist and proposed a return to "simple" Christianity, free of both hierarchy and superstition, dependent on the Bible, and led by the Crown. His followers, known as the "Lollards", attracted much influential support and their translation of the Bible (c. 1380), although officially condemned, was widely read. Their attack on established traditions, however, eventually brought down on them all the force of the Church.



Henry III (r. 1216-72) organized the rebuilding of Westminster Abbey. Church building was an important activity in the Middle Ages, uniting all classes in a common endeavour.

The results of this building programme are still obvious. The great period of parish church building began after the Norman Conquest and continued into the 13th century. Most of the

"decorated" or "perpendicular" churches of the later Middle Ages were alterations or additions to older buildings. Local guilds or landowners often bore the building and maintenance costs.



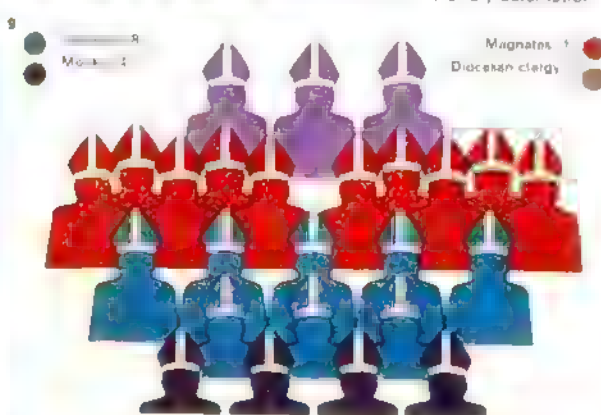
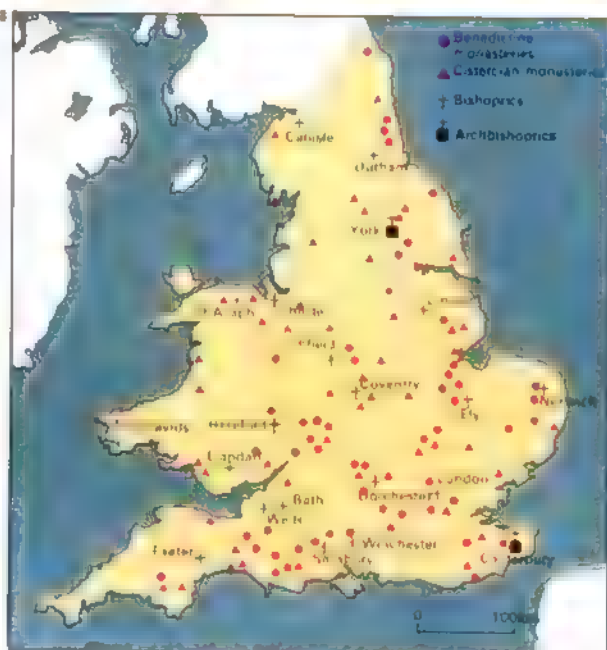
5 This image of a "greedy friar" occurs in an early manuscript of the poem *Piers Plowman* (1362-92). There were many attacks on the Church for its corruption for many parish priests were badly educated.

6 Sacraments such as marriage brought the Church to the centre of the life of many people. The priest was often the only available doctor, marriage adviser, teacher and lawyer for the village.



7 Tithe-barns, such as this one in Tisbury, Wiltshire, were built to receive the tithes or taxes payable to the Church, comprising ten per cent of each parishioner's gross earnings. Lawyers insisted that the poor, like the rich, had to pay tithes, but they added that priests were equally bound in charity to relieve the very poor. At tithe gathering the village haywards used to ring the church bells and then go from house to house, but tithes were hard to enforce, and excommunications for nonpayment were common. It was generally assumed that everyone owed a debt to the Church for protecting their spiritual interests, but not to be spent on worldly ostentation.

8 Monasteries were found in almost every part of England. These institutions, which were central to medieval Christianity, were often established as shrines and as centres for the dispensation of charity, as well as being land-owning corporations. Each monastery was more or less independent of any superior authority, and the main problem of any prospective reformer such as Grosseteste was to battle with the abbots and cathedral chapters who were jealous of their privileges and local autonomy. As a result, much of the history of the English medieval Church is littered with obscure legalistic wrangles with moral issues submerged. Benedictine monasteries were the oldest, dating from the Anglo-Saxons.



9 The episcopacy in England in 1275 comprised men from different backgrounds, but there was a higher proportion of scholars and university-educated bishops than at any other time in the Middle Ages. During the next 50 years

the number of civil servants, or royal administrators, sharply increased, reflecting a more secular outlook in the Church. At the same time the rise in factionalism among the nobility made the Church – an important source of patronage and power – a more

attractive object of baronial ambition, and many bishoprics came under the direct control of the barons. After 1350 encroachment of secular politics on those of the Church (as opposed to a secular attack on clerical privilege) was common.

Rural life in medieval England

The structure of the English village originated in a deliberately chosen pattern of settlement. Brought to England probably by the Anglo-Saxons, it was characteristic of the open landscape of northern Europe. Except in the west and north, where Anglo-Saxon settlement was less complete, it generally replaced the isolated farmsteads of the Celts, and was well suited to the cultivation of the open or "champion" country of the Midlands and southern England.

The medieval English village

In the eleventh century villages acquired the characteristic shape and size that survives today, clustered around a church and often a green. Little essential has changed since *Domesday Book* (1086), in which were recorded almost all the settlements and village structures that now exist: the large village greens typical of north Yorkshire and many other areas, the straggling villages of much of East Anglia, the hamlets of Dorset. By 1100 the idea of several families living in close proximity and co-operating in the agricultural tasks had wholly taken root.

The peasant's house usually stood in its own vegetable plot. Many peasants also owned a pig or a few fowls. The whole family took part in the struggle for survival: the women looked after the garden and made the normal leather clothes (and, after 1350, the woollen clothes that slowly replaced them) while the men worked in the fields. The primitive implements included the ox-drawn plough, but backbreaking work from sunrise to sunset was still necessary [1] both in the peasants' own fields and in those of the lord to whom they owed labour services. A monotonous diet of bread and ale (not yet flavoured with hops) was only partly mitigated by vegetables and fruit, although the plentiful livestock of most parts of England made meat-eating reasonably frequent for all classes.

The social system of the village

In any village there were men of many different social degrees. In the eleventh century there were *gentils* (a lord's free retainers and messengers), *cottars* (who in theory owned five acres but owed labour services to

the lord) and *geburs* (who had more onerous services than cottars), landless labourers and slaves also existed in some areas. By 1200 these various distinctions had been simplified into *freemen*, who could sell their land and leave the village, and *villains* (bondmen), who were hereditarily tied to their lord. These classes, however, were not exclusive or separate. The extensive records of Ely show that free peasants, villeins and labourers intermarried, and by the early fourteenth century some villeins could buy and sell property without hindrance and amass considerable personal wealth. Whatever the importance to landowners of the legal status of peasantry, it was certainly less central to peasant society itself than the ties of kinship and membership of the village community.

The village community demanded organization, and most villages of the thirteenth century were "manors", or estates owned by a lord (whether resident or not) and composed partly of *demesne* (fields directly cultivated for him) and partly of fields held by peasants in return for rent or

CONNECTIONS

See also

Western European
Middle Ages
Medieval Europe
Medieval
Feudalism
The Age of Chivalry
England in the 14th

1 Most of the tasks of the agricultural year were done by hand. The agricultural writer Walter of Henley (fl 1260) advised that seed should always be brought from other manors at Michaelmas because it grew better than the home-produced product, and similar lore surrounded other jobs. Agricultural output was at its medieval peak in the 13th century when many improvements to estates were introduced and virgin land was cultivated.



3 Hunting was an overriding passion for King John (r 1199-1216), as well as many other kings. William I (r 1067-1100) died in a hunting accident and the itineraries of many rulers, journeys through the realm were tours of their hunting lodges, some of which, such as Woodstock in Oxfordshire, developed into sizeable towns. Forests were richly stocked with bear, wolves, boar and all kinds of deer. Falconry was also practised.



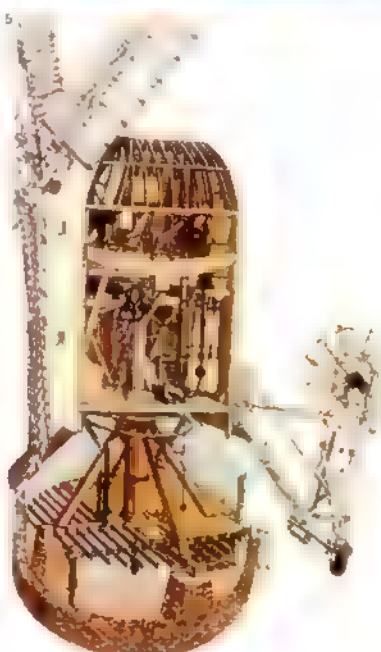
4 The reeve was the local agent of the landowner and he was often a native of

the village which he officiated. Despite this he was frequently depicted as a tyrant.

Here a reeve is shown directing peasants as they reap the lord's demesne.



2 Royal forests took up a significant proportion of the land of England in the 13th century. Woodland was as important to the medieval economy as open country for it yielded not only timber and charcoal, but served as a reserve for game and provided pasturage for pigs. After the Norman Conquest the Crown began to assert its authority to gain control of the woodland, designating areas and sometimes whole counties as royal forests in which rights of hunting, farming and gathering were severely restricted. These controls were often resented by local inhabitants, and disputes over encroachments by farmers seeking to extend their estates were common through out the Middle Ages.



5 The postmill, an elaborate version of the windmill, was introduced into England in the 1180s and quickly became common. The whole mill turned to face the wind. A monopoly of milling was an important part of a feudal lord's authority in his manor.

6 The birth-rate in the 13th century was higher than today, but infant mortality varied between 15% and 20%. Once a man reached the age of 20, he might expect to live to 50. The Black Death, however, severely reduced life expectancy even in the countryside.

Gothic art 1140-1200

The term "Gothic" was coined during the Italian Renaissance for a style of architecture then considered so barbaric that it could be ascribed only to the Goths, the fifth-century ravagers of Classical Rome. Gradually "Gothic" has ceased to be pejorative. Its application to sculpture and the graphic arts is a fairly recent development.

Beginnings of Gothic in France

In the early Gothic period, as in the early Middle Ages, the principal artistic enterprises were the great abbey and cathedral churches and their decoration. No new form of church was evolved by early Gothic masons, but both architectural style and building technique underwent a complete transformation. Indeed, the Gothic style is, of all architectural styles before the twentieth century, the one that can claim to be most completely independent of the classical traditions of antiquity.

For the first 30 years of its existence Gothic architecture was an exclusively French development, but in the late twelfth century it spread beyond France and by

about 1250 it had displaced the local Romanesque styles of most regions of western Europe. This expansion may well have been due to the aesthetic and technical advantages of the style, but it must also have been connected with the rise of France as a major political force and her widely acknowledged superiority in cultural matters. It is therefore highly appropriate that the first mature example of Gothic architecture should be the choir of the Abbey of St Denis [Key], which lies just to the north of Paris and was to become the principal mausoleum of the kings of France. The Abbot of St Denis, Suger (c. 1081-1151), was a passionate believer in the natural superiority of all things French.

The choir of St Denis (begun in 1140 and consecrated in 1144) is a building whose extraordinary originality is matched by perfect consistency of execution. The qualities that distinguish it from previous buildings, however, all stem from a single technical innovation, namely the combination of rib-vaulting with pointed arches. Both of these features were derived from earlier buildings

rib-vaulting from Norman churches such as Lessay (begun c. 1100) and pointed arches from the Burgundian Abbey of Cluny (begun c. 1090) or a derivative.

Rib-vaults and weight-bearing buttresses

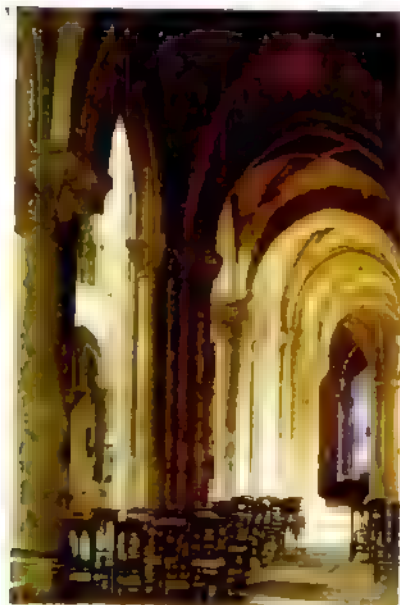
Rib-vaults had several advantages over other types of vault [4]. Their diagonally crossed pairs of arches (ribs) provided a framework allowing the cells of the vault to be filled in afterwards. Centring (curved scaffolding on which vaults were built) was thus required only for the ribs, not for the whole vault. Rib vaults were also relatively light, being made of carefully shaped stones rather than rubble embedded in mortar, and the use of geometrically regular arches made them easier to fit over variously shaped spaces. The disadvantage of semicircular ribs as used at Lessay and elsewhere was that their height (radius) was bound to be half their span (diameter). This meant that in an oblong vault diagonal ribs and wall ribs required some rather clumsy adjustments to make them equal in height to transverse ribs.

By combining rib-vaults with pointed

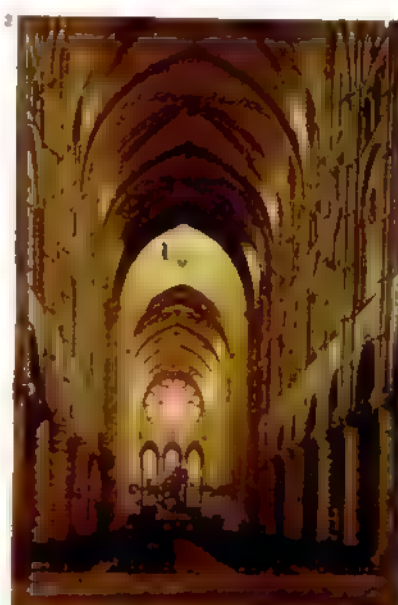
CONNECTIONS

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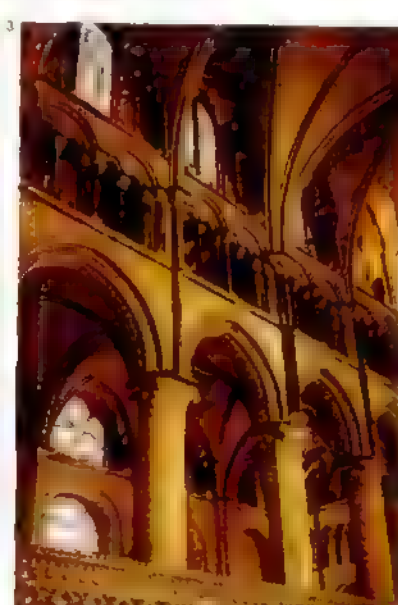
1140-1151
1151-1160
1160-1175
1175-1185
1185-1195
1195-1200



1 Sens Cathedral is the earliest surviving French cathedral (begun in 1153) based on St Denis. Pointed rib-vaulting is used throughout, mostly carried on slim columns with foliage capitals. This view looking north-east shows the ambulatory with one of the semicircular chapels in the right distance.



2 Leon Cathedral remains largely unaltered except that the ambulatory was replaced in the early 13th century by a flat east end lit by a rose window. In the nave there was a brief attempt to extend the alternating rhythm of the vaults downwards by adding extra shafts to every other column of the arcade.



3 A simplified version of Gothic architecture had been evolved by 1160 in the Cistercian abbeys of northern England, but the adoption of Gothic started with the rebuilding of Canterbury choir c.

1175 by the French architect William of Sens. The design has several features not usual in France, notably the dark marble shafts. These became standard in English Gothic for about a century afterwards.

4 Vaults under semicircular ribs appeared in England and Normandy about 1090. The main problem with semicircular ribs was that the wide diagonal ribs had to be depressed and the narrow wall ribs raised as vertical pieces in order to rise to the same height as the transverse ribs. Gothic architects solved this problem by using pointed ribs. These are struck from two centres, which means that their height is no longer dictated by their width. Pointed arches were adopted for aesthetic rather than structural reasons. Sex-partite vaults (so called because they have six compartments) were used over paired rectangular bays at Leon in the late 12th century.



5 The jamb figures at Chartres Cathedral (central west portal) probably represent Old Testament personages. The Christ in Majesty above the doors has a calm nobility different from the terrifying Judging Christ of the Romanesque portals.

6 The subject of this sculpture at Sens Cathedral (west portal) is the Coronation of the Virgin, one of several scenes that became popular in the 12th century with the advent of the Virgin cult. Traces of original paint remain.

arches, whose height can be kept constant whatever the span, the St Denis mason put vaults of even height over a complicated series of spaces of various sizes and shapes. He emphasized the lightness of the vaults by setting them on single, slender columns. He also extended the skeleton principle of rib-vaults to the outer wall of the choir. Realizing that rib-vaults did not exert a continuous outward thrust that needed to be absorbed by massive walls, he placed deeply projecting buttresses only at those points where the thrust was concentrated. The walls, relieved of their load-bearing function, opened up as an almost continuous band of windows. It was the brilliant lighting of the St Denis choir that most impressed Abbot Suger.

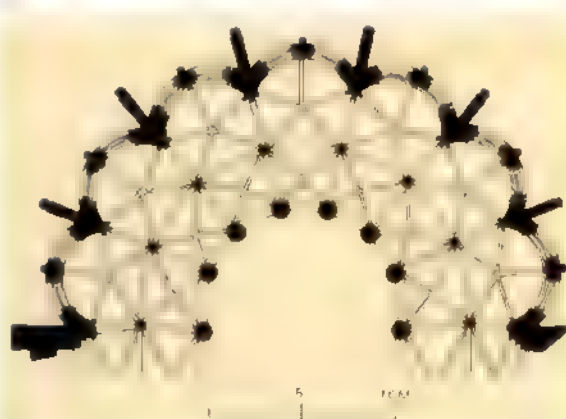
Laon Cathedral

St Denis immediately became the inspiration for a whole series of northern French cathedrals, of which Laon [2], begun c 1160, is in many respects the classic example. The internal elevation is of four storeys, including an ample gallery or tribune. The vault is in six sections with shafts arranged alternately

singly and in threes. The narrow proportions of churches of this period, regarded as typically Gothic, are no less than those of some major Romanesque churches, such as Cluny or the churches that flank the pilgrim route on the way to Santiago.

The smooth exterior contours of twelfth-century Gothic churches were generally enlivened by towers, ranging from the usual two at the west end to the seven projected at Laon. West fronts were pierced by large portals in which high-relief sculpture was used not only on the tympana (the area between the top of the door and the arch above it), as in the Romanesque period, but also on the framing arches (archivolts) and on the jambs (the sides of door or archway). These large-scale jamb figures [5] became a hallmark of the Gothic style.

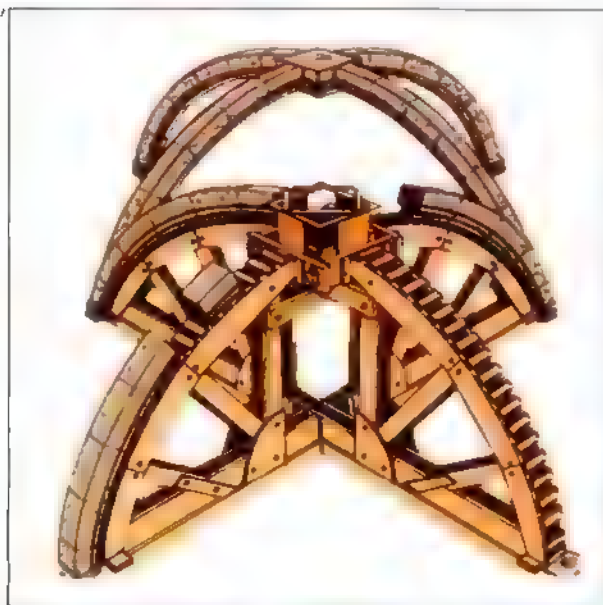
Apart from foliage capitals, early Gothic interiors contain little carved decoration beyond the moulded arches, ribs and shafts of the buildings themselves. Their austerity was to some extent offset by the lavish use of stained glasswork and a restricted use of painted colour.



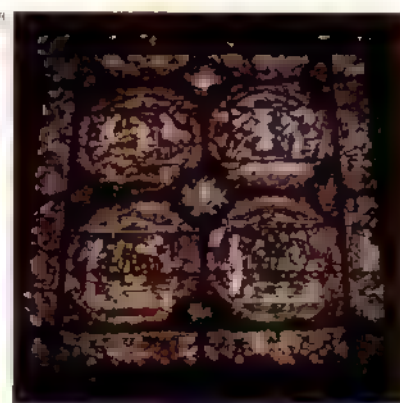
The east end of the 8th-century church of St Denis was demolished and replaced in the 12th century by this complex structure in which the semi-circular processional path or 'ambulatory' enabled visitors and

pilgrims to see the shrine of St Denis without disturbing the services there. Opening out of the ambulatory are seven chapels partly contained in shallow round apses. Their windows form a con-

tinuous band separated only by small stretches of wall and thin deep buttresses. Crossed lines indicate the position of the vaulting ribs and crosses, the sites of the piers.



7 The south choir aisle at Exeter Cathedral (c 1300) was bombed in 1942 and rebuilt in 1949. This view shows the wooden arches and scaffolding or 'centring' used to build up the ribs. Some of the ribs are already in position but none of the sculptured keystones ('bosses') at the intersections have yet been replaced. After the completion of the ribs the next stage is to fill the curved triangular spaces in between with horizontal courses of stone. No scaffolding is required for this process because the ribs serve the purpose adequately. By this stage the wooden protective roof would already have been built.



8 In the Jesse tree window at Chartres Cathedral, Jesse lies in the lowest panel. Out of his loins grows a tree with Christ and His ancestors, including the Virgin seated in the branches.

9 The windows round St Thomas à Becket's shrine at Canterbury Cathedral were filled with stained glass illustrating the miracles worked by his intervention. They recall late 12th-century illumination.

10 Church metalwork was among the most esteemed forms of art in the Middle Ages. Abbot Suger of St Denis wrote long descriptions of the treasures which he collected for his abbey, but made no mention of the stone sculptures of the new west portals which are now regarded as the starting point of Gothic sculpture. The Klosterneuburg altarpiece (1181) was originally made as a pulpit, which explains why more precious materials were not used. Most unusually the artist Nicholas of Verdun was allowed to sign his name. These classical figures possess a three-dimensional solidity and weight that has nothing to do with the linear exaggerations of most Romanesque art.



11 Like metalwork, manuscript illumination was a major art form. Many fine manuscripts were produced in monasteries but there are good grounds for thinking that the leading artists - of whom this Winchester master was one - were professional laymen. The two figures in this initial to the Book of Isaiah (c 1170) in the Winchester Bible achieve in one way what Nicholas of Verdun did in another: that is the effect of solidity and a respect for the proportions and articulation of the human figure. The Winchester style derives from recent Sicilian mosaics of provincial Byzantine style. The same artist may have executed some wall paintings in Winchester Cathedral.

Gothic art of the 13th century

In their plans and in the disposition of their internal spaces the twelfth-century Gothic cathedrals adhered largely to Romanesque precedent. But in a number of churches begun towards the end of the century, of which the most important was Chartres Cathedral (the middle storey (the gallery or 'tribune') was omitted to make room for high arcades and clerestory, separated only by a low triforium (a passage along the wall).

The immense enlargement of the clerestory windows necessitated extra support to resist the thrust of the high vaults and this was provided by flying buttresses, which henceforth became a feature of French cathedral design. Externally, flying buttresses effaced the simple contours of the early Gothic churches and substituted the complex, restless silhouette now regarded as characteristically Gothic. The grandeur and simplicity of the interior at Chartres was enhanced by the plain quadripartite rib-vaulting, supported by piers consisting of a column with four attached shafts, thereby bringing the vertical lines of the vault shafts down to the ground.

Chartres, like St Denis 50 years earlier,

became the prototype of a whole series of northern French cathedrals. [?] Reims, begun in 1210, followed Chartres closely but made an important advance in the window design. Instead of the groups of three openings, two pointed and one circular, that made up the Chartres clerestory, the Reims mason treated all windows as one unit, but with subdivisions built up as an interdependent series. This innovation, known as "bar tracery" or simply "tracery", was taken up by other masons and became an enduring characteristic of Gothic architecture.

European developments

In the reign of Philip II Augustus (1165-1223), France was established as the leading power in Western Europe and in the reign of his grandson Louis IX (1215-70) it became the arbiter of European taste. As a result, there are major churches outside France, such as León Cathedral in Castile (begun c. 1250) and Cologne Cathedral (begun 1248), that are practically indistinguishable from French work. The same cannot be said of Westminster Abbey

(begun 1245) even though it has more French features than any other thirteenth-century English church.

Among the most impressive examples of this so-called 'Early English' style is Lincoln Cathedral, begun 1192. The proportions are broad and the walls are of Romanesque thickness, although any effect of heaviness is offset by the use of fine mouldings on the arches and marble shafts on the walls and supports. This English predilection for complicated linear pattern is remote from the austerity and single-mindedness of contemporary French designs. During the second half of the thirteenth century the English masons learned all they wanted to know of French Gothic, but their evident enthusiasm for elaborate architectural decoration remained undiminished.

Master masons

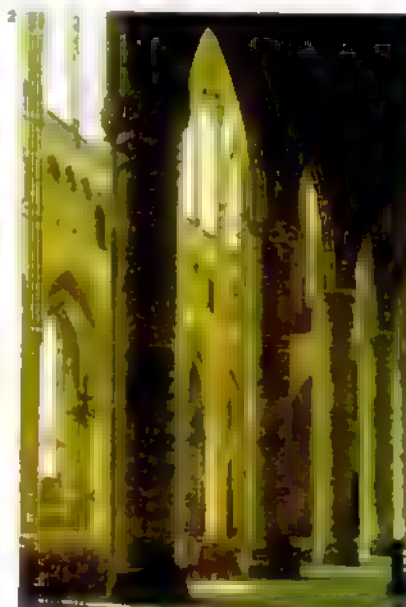
Unfortunately, little is known of the organization of thirteenth-century masons because of the scarcity of contemporary documents. But it seems clear that master masons performed much the same role as

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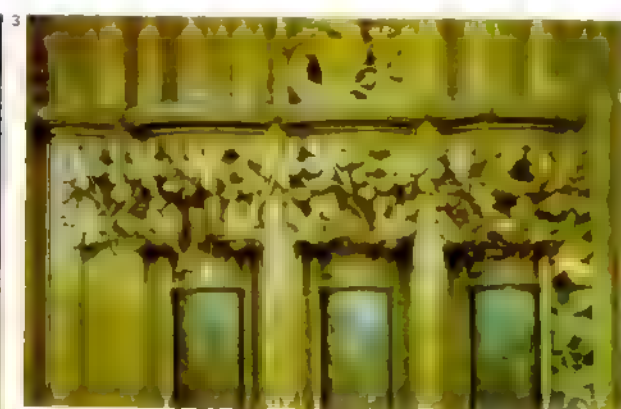
See also

1 All the important Gothic churches in northern France, beginning with St Denis, were intended to have two tower west façades. Here at Reims as well as at Laon and Chartres towers were also intended over the transept façades but were never completed. The rose window is a usual feature of 13th-century west fronts but the portals are exceptional in substituting rose windows for sculpted tympana.



2 The influence of Chartres on the cathedral at Soissons is apparent in the high arches and clerestory. However the overall proportions are taller than at Chartres and the piers are simple, round columns with only one shaft attached, as opposed to the four at Chartres. The extreme lightness of the interior is due to the destruction of the original stained-glass windows.

round columns with only one shaft attached, as opposed to the four at Chartres. The extreme lightness of the interior is due to the destruction of the original stained-glass windows.



3 The foliage on the chapter house door, late 13th century at Southwell Minster (left to right: buttercup, vine, oak) achieves a fine balance between the natural and the ideal while still respecting the architectural function of the capitals: the tops of columns. Sculptors at Reims in about 1230 were the first to carve leaves that corresponded closely to natural forms.



6 The broad proportions and elaborate decoration at Lincoln Cathedral are in complete contrast to contemporary French cathedrals. The arcades are so wide that the aisles merge with the central space. Most available surfaces are en-

livened by brownish-grey polished shafts from Parbeck, Dorset. The vaults are the earliest, which additional decorative ribs are introduced to blur the divisions between bays and create an effect like a series of branching palm fronds.

4 The Reliquary of Our Lady at Tournai Cathedral has been attributed to Nicholas of Verdun who finished the Klosterneuburg altarpiece in 1181. The figures have ample, fluid draperies anticipating those of some of the stone sculptures at Reims. The reliefs show the Annunciation, the Visitation and the Nativity. More important shines like St Thomas à Becket's at Canterbury had the same house-ike shape but stood on tall stone bases.



5 The sole surviving large exterior sculpture at Notre-Dame, Paris, the Virgin stands on the triforium or central pillar of the north transept portal. Her pose with the weight on the left leg serves to draw attention to the infant Christ here and 'sacculated' by pointed hanging folds. Her air of mannered refinement and swaying posture became typical of 14th-century sculpture. Like most Gothic sculpture this figure was originally coloured.



architects in later periods although, unlike architects, they were promoted from the ranks of the working masons and not trained purely as designers [Key] Master masons were generally well paid and often the owners of extensive property. The working masons were divided into "cutters" who carved the architectural components, and "setters" who actually put up the building. Figure sculpture was usually the province of highly skilled specialists.

The masons' tools were extremely simple. Stone was given various degrees of finish by using finer or coarser chisels. Simple lifting tackle was used and a primitive wooden crane remained in position at Cologne Cathedral until the building was finished in the nineteenth century. The vast front of Cologne was completed then with the aid of the original designs on parchment, which were probably made as presentation drawings for the approval of the design by the cathedral authorities. Working drawings were usually drawn full size on boards or on a plaster "tracing floor" in the masons' lodge. A surviving example of such a floor at York

has many layers of partly erased drawings underneath the most recent set, which is late fourteenth century in origin.

Decorative features

Stained glass remained the principal form of internal decoration, but by about 1250 the deep blues and reds of the early thirteenth century gave way to a wider and less predictable range of colour.

Thirteenth-century sculpted portals retained the basic twelfth-century format but, like the cathedrals they adorned, were much larger than those of the preceding century. There was an increased emphasis on the Virgin and even in Last Judgment scenes she and St John appear interceding with Christ on behalf of mankind. A certain humanizing of religious subject-matter was achieved in the opening decades of the century by the increasing depiction of character types. By about 1250 this process had gone further and figures such as that of Joseph on the west front of Reims were endowed with the worldly grace that was to characterize much courtly art of the succeeding century.

FLY



Hugues Libergier was master mason of the important church of St. Nicolas in Reims which was destroyed in the French Revolution. He appears holding a model of his church with his square and dividers by his feet. His dress is indicative of the professional status of masons in this period. The Dominican friar Nicholas de Biard compared bishops with master masons who, he said, gave orders to others wearing gloves and holding a measuring rod and receiving higher pay although they themselves never set their hands to the work. Often master masons were commemorated by inscriptions placed in "their buildings by patrons."



7 The west towers of Chartres Cathedral, with the portals and windows, were added to an 11th-century wooden-roofed basilica in the period 1130-50 and retained after the basilica was burned in 1194. The new Gothic church has the same width

as the old basilica but the increased height may be gauged from the rose window added above the west windows. Smaller roses occur in the clerestory windows and more complex ones in the transept fronts. Even the lower tiers of fly

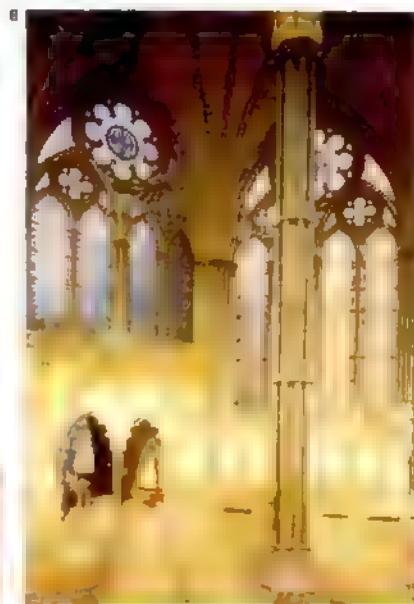
ing buttresses are linked by radiating arches to make them look like segments of rose windows. The niches on the buttresses are the first examples of what became a favourite device of the Gothic designers. The austere interior

displays to perfection the medieval stained glass windows that have been preserved in their entirety at Chartres, alone among French cathedrals. After the decision to retain the old west portals, the transept fronts were decorated with as much sculp

ture as if they had been west fronts: the similarity would have been complete if their twin towers had been carried up. The number of towers planned was nine, two more than Laon. In this, Chartres set new standards of magnificence

8 Chapter houses were used by the ecclesiastical communities for the transaction of secular business. Their central plan was an early 12th-century English invention although the finest

examples are 13th-century. At Salisbury Cathedral (shown here) the huge filled windows with bar tracery are of French derivation but at Lincoln and Wells the vault is more prominent.



9 This detail at Westminster Abbey shows St. Peter and is one of 13 compartments of a wooden panel whose original purpose is unknown. It may have been placed behind or in front of an altar.

Despite severe damage, it is still recognizable as the finest panel painting surviving from the 13th century. The thin features and mannered gestures recur in wall paintings at Westminster.



The emergence of France

The beginnings of the French nation can be traced to the medieval house of Capet. Hugh Capet, a feudal lord whose lands centred on the middle Seine, was elected king of the west Frankish domains in 987 and reigned until 996 (superseding the Carolingians). France was then only a part of Gaul, which stretched from the Pyrenees to the Rhine and had been, since the Frankish invasions of the fifth century, a conglomeration of Germanic Celtic and Romance elements. The French-speaking peoples came to the fore and were united only with the slow extension of Capetian authority. The Capetians initially controlled only a small area around Paris and Orléans and for 200 years were given only nominal allegiance by the many more powerful feudal lords in France.

The Capetian kings

The Capetian kings had almost no contact with Aquitaine and the south, while in the north powerful dynasties of the nobility in Normandy, Anjou, Flanders and Burgundy were their equals in wealth and influence. But the real source of Capetian strength was

the popular veneration they were increasingly accorded. The kings, although at first powerless, gradually emerged as sacred figures, consecrated by the holy oil first used by St Remy (c. 438–533), the "Apostle of the Franks" in c. 497 at the baptism of Clovis. This oil was thereafter kept at Reims in an ampoule that never emptied [Key]. The royal touch was also believed to cure scrofula (lymphatic tuberculosis). In 1297 the kings added a halo to their inheritance with the canonization of Louis IX, whose spirit became the focus of both religion and patriotism.

Gradually the French kings built up their political power too. This had a solid base in the growing prosperity of France – in the thriving city communes, which were actively encouraged by the twelfth-century kings, and which became foci of loyalty. A dramatic expansion of authority beyond the royal patrimony took place in the reign of Philip II Augustus (1165–1223), he took advantage of the unpopularity of King John of England to regain English-ruled Normandy and bring his own vast territories extending to the Pyrenees under direct royal rule. His son

Louis VIII (1187–1226), introduced royal power into the heartland of southern France (Languedoc), after the Albigensians there had been crushed by a papal crusade against their heretical view of the world as a creation of the Devil. The power and prestige of Louis IX (St Louis) (1215–70) were so great that he was able to act as the arbiter of all Europe. The apogee came in the reign of Philip IV (1268–1314), who advanced the frontier far to the east and subdued even the Papacy.

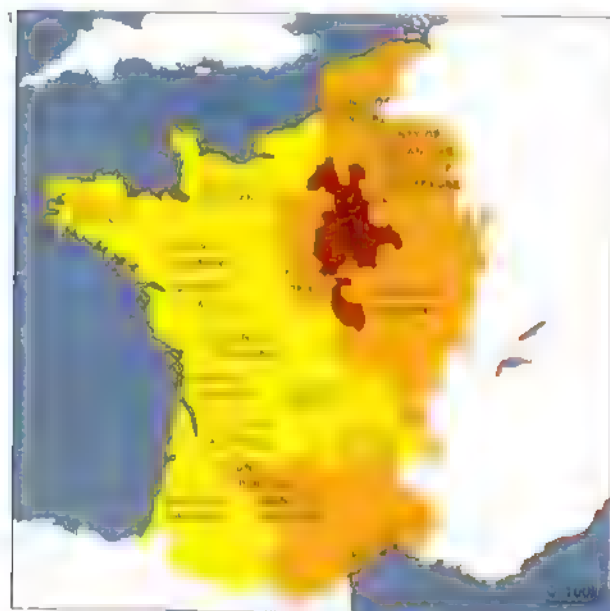
The change in government

With this advance came a new kind of government. The thirteenth-century kings attracted formerly independent lords into their service and, with the help of educated men from the University of Paris [5], began to establish a "civil service" of local officers who judged cases and collected revenue in the provinces. At the centre were the *parlement* of Paris, the highest court of the kingdom, and the *Chambre des Comptes*, a financial department, staffed by lawyers of high calibre who made French royal justice widely sought. By 1314 the French king was

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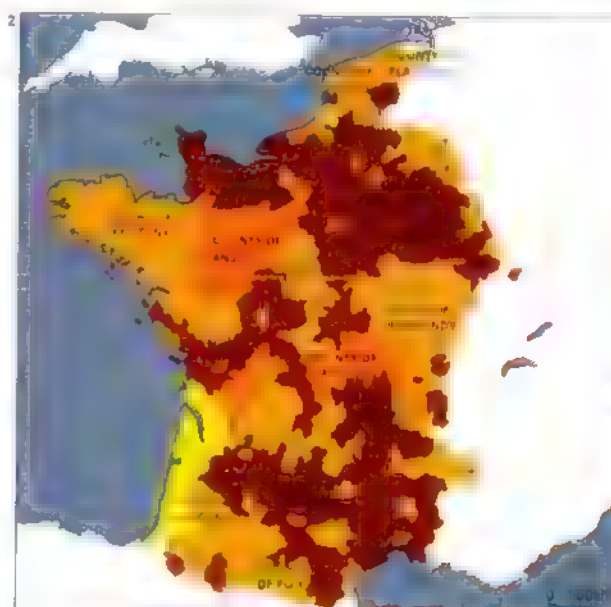
See also

| | |
|---|--|
| 1 | By 1180 the map of France included parts of modern Belgium but excluded Franche Comté, Dauphiné and Provence which were ruled by the emperor. But even within the confines of the Capetian dynasty's formal authority, many provinces were almost wholly beyond royal control. The real centre of the king's power was between Paris and the Loire. To the west lay the dominions of his Plantagenet rivals. Almost all of these were gained by Philip II Augustus (r. 1180–1223). |
| 2 | By 1328 France had expanded beyond her borders of 1180 and in 1349 she gained the Dauphiné. Internally the Capetian dynasty had established its hold on the former Plantagenet lands, and |
| 3 | The French monarchy descended in the male line from 987 to 1848. The direct succession of son to father was carefully preserved until 1316. The older Capetian line died out altogether in 1328. The Valois line then ruled until 1589. |
| 4 | The ambulatory of the Abbey of Saint Denis was one of the earliest inspirations of Gothic architecture and it represented the cradle of French national sentiment. It was built in the mid-12th century during the reign of Louis VII. |
| 5 | The seal of the University of Paris was made in 1215. The university began as a corporation of scholars in the 12th century and in the 13th century trained many of the most useful servants of the Crown as well as great philosophers. |



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■ Royal domains 1180
■ Fiefs held by English king 1180
■ Other fiefs 1180

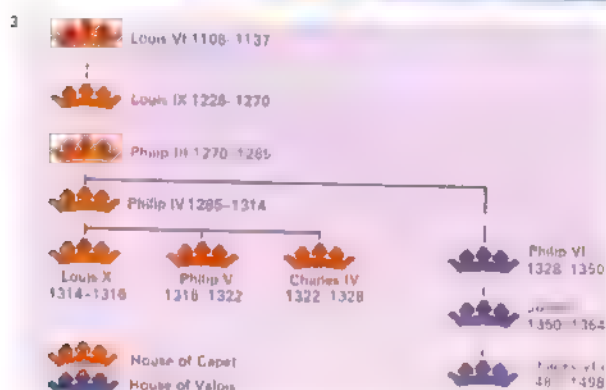


2 By 1328 France had expanded beyond her borders of 1180 and in 1349 she gained the Dauphiné. Internally the Capetian dynasty had established its hold on the former Plantagenet lands, and

all the feudatories in Burgundy, Brittany and Languedoc acknowledged it, as did the English king in Guyenne. But the many enclaves and noble houses indicate how shallow were the roots of royal authority, which often

merely confirmed the positions of local magnates. In ensuing wars, many nobles played off the English and French crowns against each other to gain almost complete independence.

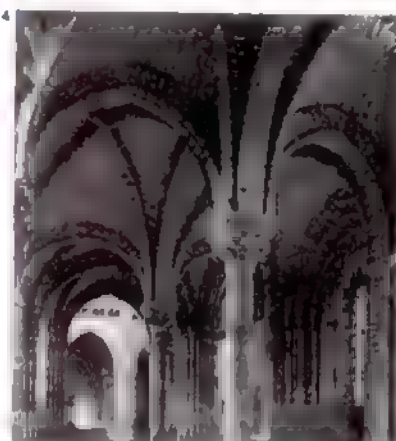
■ Royal domains 1328
■ Territories of royal vassals 1328
■ Fiefs held by English king 1328
■ Other fiefs 1328



3 The French monarchy descended in the male line from 987 to 1848. The direct succession of son to father was carefully preserved until 1316. The older Capetian line died out altogether in 1328. The Valois line then ruled until 1589.

4 The ambulatory of the Abbey of Saint Denis was one of the earliest inspirations of Gothic architecture and it represented the cradle of French national sentiment. It was built in the mid-12th century during the reign of Louis VII.

5 The seal of the University of Paris was made in 1215. The university began as a corporation of scholars in the 12th century and in the 13th century trained many of the most useful servants of the Crown as well as great philosophers.



richer, more respected and better served than any other European ruler

That his power was nevertheless limited was shown by the crises of the fourteenth century. Up to 1314, by a remarkable chance, power had passed uninterruptedly from father to son, but the direct line of Capetians ended in 1328 and the crown passed to their Valois cousins [3]. The Valois claim was challenged by Edward III of England (1312-77), to whose court flocked all the dissidents of France, in Flanders, in Brittany and above all in the south, local noblemen hoped to increase their patrimony by playing off Philip VI (1293-1350) against his rival. Edward crushed the French arms at Crécy (1346), while France became the prey of war-bands who made their fortune from the profits of ransom, pillage and terror. At Poitiers (1356) [7] King John II (1319-64) was himself captured by Edward's son, the Black Prince, and released only for an enormous ransom. English successes were not continuous, but during the reign of Charles the Mad (1368-1422) a murderous factional struggle between the rival houses of

Burgundy and Orléans exposed France to a renewed attack from England. With the help of the Duke of Burgundy, the Lancastrian King Henry V was able to conquer Normandy, occupy Paris and induce Charles VI to disinherit his son in his favour.

Joan of Arc, the Maid of Lorraine

At the lowest ebb of the Valois fortunes, when the English and Burgundians ruled northern France, the popular and religious aspect of kingship reasserted itself in the extraordinary events involving Joan of Arc (c. 1412-31) [6]. Joan, a humble girl from Lorraine, went to the court of the disowned heir, Charles VII (1403-61), [10] and by claiming the miraculous intervention of the saints in his cause endowed it with a popular fervour. She herself was burnt by the English but a reconciliation between Burgundy and Charles VII at the Congress of Arras (1435) made the English position hopeless.

As the English withdrew from France, the monarchy found itself firmly established in the affections of its subjects. The unity of the nation was never again in doubt.

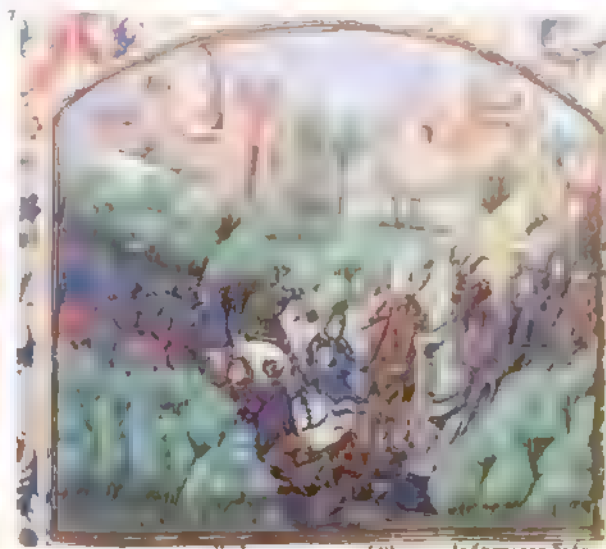
PLY



The Coronation Chalice at Reims Cathedral is the symbol of a sacred kingship. The French monarchy made up for its lack of physical power by the prestige of its religious sanction. Kings were anointed with the oil said to have been used at the baptism of Clovis, the first king of the Franks; the oil was kept in a phial miraculously refilled for each coronation. The king was regarded by many as a religious figure. The lions on his shield were said to have first appeared super naturally on the shield of Clovis and his banner, the oriflamme, was said to be the mythical flaming lance of Charlemagne, King of the Franks.

6 Joan of Arc was captured at the battle of Compiègne in 1430. She had appeared at the court of Charles VII when his fortunes were at their lowest in 1429. Her adoption of the dress and manners of

the mercenaries shocked some but inspired many more and she eventually turned events in Charles's favour. She was tried by the English in 1431 as a heretic and burnt at the stake.



7 The Battle of Poitiers (1356) (from a 15th century manuscript) was a great defeat for the French army. The English, led by Edward, "the Black Prince", were heavily outnumbered, but at

the height of the battle they launched an attack from behind the French lines and the French king, John II, fled, only to be captured with his son Philip. He was taken to England where he died.



8 Charles V of France is seen here entertaining Emperor Charles IV on the latter's state visit to Paris in 1377. Charles V (1338-80), who came to power at the age of

19, became one of France's most successful kings in her darkest days. After heavily reducing English power in France he sought European allies to drive his enemies from his country.



9 A miniature by Jean Fouquet (c. 1420-80) shows the trial of John, Duke of Alençon, for treason in 1458. The duke fought with Joan of Arc and was loyal to her even during the court intrigues of the time. However, as an outspoken rebel who had made no secret of his loathing for the king, he was still given a fair and formal trial and did not die until 1476. French judicial institutions, which enjoyed a high prestige throughout Europe, had been perfected in the 13th century. They were based on Roman law.



10 Charles VII was painted by Jean Fouquet in 1445. This much-abused monarch is the least understood of French rulers. He overcame appalling misfortunes which began with his disinheritance by his father Charles VI in 1420 in favour of Henry V of England, the victor of the Battle of Agincourt. Yet he became the focus for all energies of English rule in France and gradually succeeded over 30 years in expelling his opponents from the realm. However, revolts of the nobles disturbed the last years of his reign.

Feudalism

In a civilization like Europe's in the early Middle Ages, with no civil service, police, or legal profession, the only stable institutions were the family group and especially – since wealth and power could result from it – the warrior band with its lord. The bond between lord and warriors was the basis of "feudal" society, in the Germany, England and France of the eleventh and twelfth centuries. The ethic of the medieval warrior demanded fierce loyalty from the retainer and unstinting generosity from his lord

Land tenure

The personal bond between the warrior and his lord, or later the tenant and the king, which was expressed in fealty, vassalage and homage (increasing grades of obligation), became translated into the sphere of property relations. Absolute ownership of land was unknown in the Middle Ages; instead the king granted estates or fiefs, in return for definite services, often military, which were supported by oaths. The king's tenants-in-chief, too, granted out land to knights in return for oaths of loyalty to themselves. The

ceremony of homage [1] did not necessarily imply either a permanent or an exclusive tie, and it was common for a knight to owe homage for an estate to several lords, or even to a social inferior. Feudal terminology was therefore simply a way of describing the complexities of land tenure: society was not in any hierarchical "feudal pyramid".

Nevertheless, the period from about 950 to 1250 is properly called "feudal" because of the dominant position of a warrior aristocracy in Western Europe and in Crusader Palestine. This aristocracy shared a common training and fighting technique, that of the mounted knight, and a common code of conduct, the ideal of "chivalry". Its basis was the technological superiority of mounted men over foot soldiers, which emerged about the time of Charlemagne. In antiquity the stirrup and the horseshoe were unknown; introduced from central Asia about 750, stirrups, in particular, had revolutionary consequences: they made it possible to charge effectively with a lance carrying the full impetus of a galloping horse without the rider being unhorsed on impact with his target [2].

This placed great value on mounted warriors [Key], but before about 950, horses were scarce, the Franks' relative wealth in them partly explains Charlemagne's successes.

Rise of the knights

There is evidence that the number of horses increased rapidly after 950 and in the next century mounted men everywhere decided the fortunes of war. Their numbers were small, their equipment expensive and their training long. But this increased their pride and prestige and by 1100 mounted warriors would symbolize their corporate spirit by the initiation ceremonies of knighthood.

Local society was thus dominated by the knightly classes. They served in various capacities: many, without a permanent master, sold their services as mercenaries to the highest bidder. Others, especially at the start of their careers, took service as the household knights of a great lord. Still others, particularly the Normans, were bound by the conditions of their tenure to fight at specified seasons; "knight-service" was the most important obligation for landowners.

CONNECTIONS

See also

Wolves to the Alt of
The King and the
Norman and Angevin
Empire
Charlemagne and the
European Expansion
European Expansion



1 The ceremony of homage is shown in a metaphorical context in this 12th-century illustration of Theophilus paying homage to the Devil. The Devil carries a charter or written record. But the original ritual of homage was designed to register the contract in public in a memorable way without the need of documentary record. Because few men were literate in the earliest period of feudalism, it was essential to make legal contracts before witnesses whose memories could be relied on. Submission was represented by the lord taking the hands of his man between his own, after words they kissed to symbolize friendship.



2 A 14th-century knight, Sir Geoffrey Luttrell, receives his helmet and lance (from the Luttrell Psalter). Knights were regarded as heroes and their combats were invested with glamour. The

impetus of their charge depended on the innovation of stirrups, the high saddle also acted as a lever. The lance, intended to unseat opposing horsemen, could be used properly only

with these aids. Few lords had many horses but evidence exists that careful breeding was increasing the number. An important stud at Corvey, Saxony, supplied the German imperial armies.

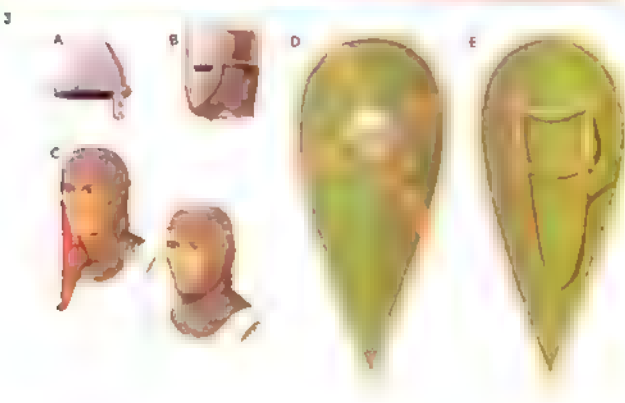
3 Functional armour was characteristic of Norman knights. As the sword [G] and axe [F] became longer protection had to be increased with heavy shields [D, E] and the 10th-century helmet [A] gave way to a helmet with visor [B] and a fitted coat of chain mail [C].



4 Langeais Castle was one of 13 built by Fulk Nerra, Count of Anjou (887-1040) from whom the House of Anjou, which later ruled England, began its formidable rise to power. In each, a castellan and garrison con-

trolled roughly as much country as could be traversed in a day. Although fortified towns had existed before, the stone keep, which was the oldest type of castle, was an invention of the tenth century. Keeps, such

as that at Langeais, stood on an artificial mound with a stockade. Internally they might have only one big room and a store, but they were focal points of feudal power and by 1100 had spread throughout Western Europe.



The most formidable of knightly warlike skills was probably the charge in close formation, which was used devastatingly against the Turks in the First Crusade. But as professionals, knights also learnt defensive skills, the most spectacular of which was the development of the castle, from the simple eleventh-century keep to the elaborate bastioned castles of the 1200s [5]

Chivalry and landowning

The knightly ideal of chivalry demanded that knights should fight to avenge the oppressed, to vindicate the honour of ladies – the theme of romantic love first appears in knightly circles in southern France in the twelfth century – and to advance the Christian religion against the Muslim Saracens [7, 8]. The Templars and Hospitallers combined knightly prowess with monastic chastity in the defence of the Holy Land.

A knight's fighting career, unless he became a lord's military official, a marshal or a constable, was comparatively short, and his ambition was usually to acquire and cultivate an estate. Once on the land most of them

lived simply in keeps with one first-floor room for living and sleeping and, below, a storehouse. Although knights had customary rights over the tenants who held plots by their grant, villagers did not live entirely in the shadow of their lords. The spread of a "three-field system" of farming with its complex organization, and the appearance of village communes in France, suggests that many villages [6] while paying dues had an independent corporate life, to which the knight contributed by providing leadership and protection and often by taking the lead in cultivating neighbouring wastelands.

Feudalism thus maintained a series of obligations which linked the peasant with his immediate lord and, indirectly, with royal power. Although the dominance of a warrior caste was crumbling by the fourteenth century through the competition of other groups of a less military nature, the disappearance of feudalism was gradual and the knight would constitute a social ideal for centuries. The material remains are with us still, as are the vestiges of chivalry as a guiding principle of Western European civilization.

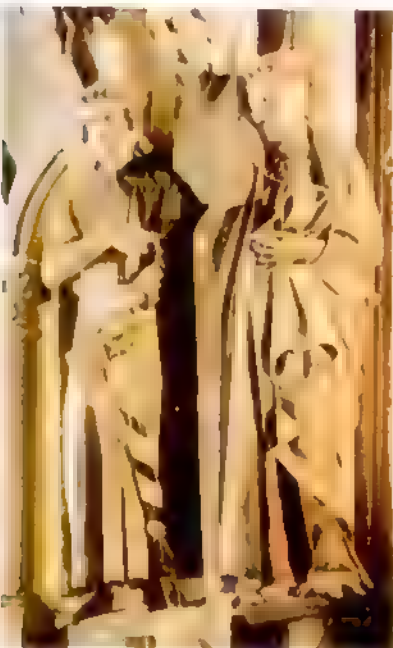
The knight, armed and mounted, was at the centre of feudal society. Only an elite could afford the costly equipment.



5 Caernarvon Castle, Wales (1283-92) was one of the massive castles built by Edward I after he conquered Wales. By 1300 the primitive keep had developed into a fortified community large enough to house, and strong enough to protect, a provincial government behind technically innovative bastions.



6 An English village (centre-left) dating from feudal times was created on uncultivated land at Chelmerston, Derbyshire. It shows a pattern implying a planned settlement, either through the enterprise of a lord or simply peasant co-operation. Each house has a garden and narrow strip extending into the waste land.



7 Eckhard and Uta, a thirteenth-century Crusader and his lady sculpted in Naumburg Cathedral, represent the highest ideal of European nobility – the Christian warrior – towards the end of the feudal period. From the First Crusade (1096-9), warfare found an idealized form in the defence of Christendom against the Saracens. Great numbers took part in expeditions to Jerusalem and enthusiasts united in the military orders of the Templars and Hospitallers. Besides the great international Crusades many knights went individually to win a reputation or expiate an offence to fight in Palestine, in Spain, or in pagan Lithuania.



8 Chivalry is exemplified by St. Louis IX, King of France

(1226-70), rescuing a Saracen lady and her child in battle. The

feudal knight evolved a code of conduct transcending even

his Christian allegiance, and chivalry was a central theme

European society 1250–1450

By 1250, the material basis of Europe as it is now known was established, most of the towns and villages that exist today were already inhabited. Although forests were more extensive than now, the area under cultivation had passed the period of most rapid expansion. The next 200 years were characterized by crises of population and production, alternating boom and slump, and by the development of the techniques of finance [Key, 3], business and trade. The underlying crisis was probably the high population of the thirteenth century. Tax records show that in southern England and Provence the number of inhabitants doubled during the century. Older towns such as Florence [2] pushed out beyond their walls and multiplied their parish churches, while new towns were founded in every part of Europe.

The increase in urban populations

In 1250 the population of Europe had reached about 70 million and evidence from several sources suggests that the rate of increase was about one per cent a year. In consequence the food resources of the conti-

nent were stretched. Migration from Germany into central and eastern Europe reached its height in the thirteenth century, while the poor soils and marginal lands of the alpine and Apennine uplands came under the plough [1] for the first time. A higher expectation of life combined with a higher birth-rate to push European society into a slowly maturing demographic crisis.

This process created new social forms, above all the large towns that profoundly modified European civilization. Since classical times, probably no town with more than 40,000 inhabitants had existed, now Venice, Naples, Barcelona, Bruges, Paris and some others far exceeded this limit. Immigrants, often from distant places, crowded into them, to work in the textiles of Bruges or Florence, or the more diversified trades of London and Paris. Two great ports, Venice [4] and Genoa, provided Europe with the products of the East, and among the first Europeans to visit China was the Venetian merchant Marco Polo. The Baltic trade was monopolized by the Hanse – a powerful league of North German cities.

In the urban centres, more specialized ways of life could develop. The skills of the accountant and the banker (developed first in Pisa and Florence) and the practice of marine insurance (a Venetian speciality) made possible the first international companies, the Bardi of Florence, through their agents in London and Bruges, were the greatest creditors of the English crown, for instance. Courtiers, civic patrons of art and people of fashion flourished in the midst of a new, degrading poverty. The friars adapted religion for the urban masses, while poverty and disease were mitigated by burgeoning charities. Whatever the crises, the great cities continued to grow.

A century of catastrophe

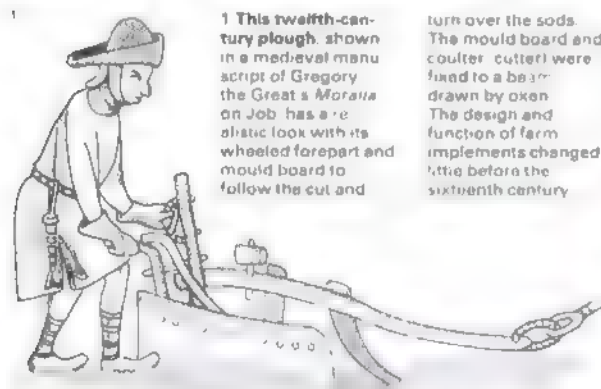
Undernourishment left the teeming population of the thirteenth century a prey to a worsening climate, hunger and disease. In 1315 persistent rain inaugurated a series of harvest failures and two years of famine throughout northern Europe. The high prices and booming business of the previous century now proved unstable: the economy had

CONNECTIONS

See also

Western Europe
approximately 1200–1500
The growth of Europe
The emergence of

Town life in medieval
Europe
Rural life in medieval
Europe
The age of the
city, 1250–1450



1 This twelfth-century plough, shown in a medieval manuscript of Gregory the Great's *Moralia on Job*, has a realistic look with its wheeled forepart and mould board to follow the cut and

turn over the sods. The mould board and coulter, cutter, were fixed to a beam drawn by oxen. The design and function of farm implements changed little before the sixteenth century.



2 The fortified Roman town of Florence was reduced during the stagnation of the Dark Ages but grew rapidly in the two fifth and thirteenth centuries. Its expanding size and power were marked by the wider walls of 1172 and 1284–1330. In spite of internal factional struggles the city's position as a centre of cloth making and the wool trade led to an era of prosperity and cultural achievement particularly after the rise of the Medici merchant family in the early 1400s. Florentine bankers were the most influential in Europe and the florin, minted in the thirteenth century, became a monetary standard.



3 Loan shops or *cassens* of Lombard moneylenders were a feature of the alpine valleys of Savoy in the thirteenth century. In many parts of Europe countryside was transformed by money at this time, especially in Italy.

The need in the population made necessary the rapid development of different soils. Peasants obtained the required capital to a large extent from loans. Moneylenders operated from shops set up in rural areas.

4 Venice at the time of Marco Polo's departure for Asia in 1271 (depicted imaginatively in this book illustration) was the busiest port in the world. The city was also a centre of ship building and a leader in ship design.



advanced too fast. The boldest venturers, the Italian bankers, were hit hardest of all and in 1343 repudiation of the English royal debt precipitated a crash in which the house of Bardi and many others collapsed.

In 1348-50 came the terrible Black Death, the first of the recurrent bubonic and pneumonic plagues that were to beset Europe until the 1730s. Carried by both rats and humans in ships from the Crimea, the plague was immediately fatal and spread rapidly from southern to northern Europe. Its effects were catastrophic: probably about 30 per cent of the total population died, but some towns in Provence lost four-fifths of their inhabitants and many villages were finally deserted. In many parts of Europe there was some recovery, but the plague returned in 1361, 1369 and 1379, and by 1400 the population had shrunk to about a half or two-thirds of its total a century before. This was reflected in the all-pervading theme of death in late medieval art [6].

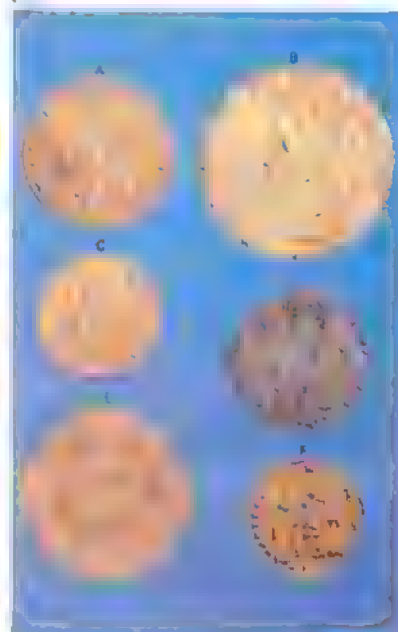
One of the effects of these calamities was social disorder, in towns and in the country. For the first time peasants and townsmen

took violent action against bad government, in the Jacquerie rising [7] of northern France (1358) and peasant rebellions in England (1381) and Catalonia (1409-13). Governments everywhere were fearful of such movements and tightened their control wherever they could. These revolts were led by men of enterprise, peasants, farmers or artisans who resented the legal limits on their activities. The fall in population led to a demand for labour and labourers demanded the right to sell their services to the highest bidder.

The standard of living

The revolts reflected the rising expectations of the peasantry; in England, wage rates doubled while prices remained stable between 1350 and 1415. They were a sign of the vitality and independence of humbler men [8] for them the demographic decline meant a higher standard of living and the opportunity to turn peasant holdings into small farms. After a century of catastrophe, the fifteenth-century peasant followed the bankers and merchants of the pre-plague age into a measure of prosperity.

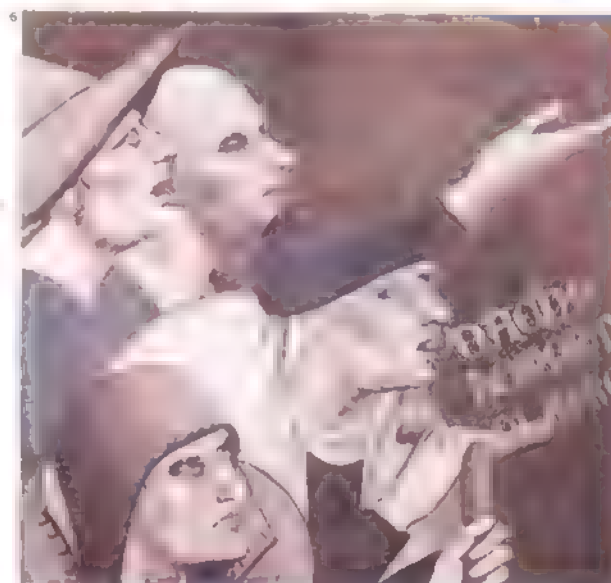
Coins proliferated in the late Middle Ages with the development of economies based on trading. A gold coinage almost unknown since the seventh century was restored in the thirteenth. Pioneers of the new money were the republics of Venice with the ducat and Florence with the florin. These coins are of roughly standard appearance and were issued in 1357-67 by Pedro I of Castile (A), in 1399-1413 by Henry IV of England (B), in 1419-34 by Conrad III of Mainz (C), in 1368 by the republic of Florence (D), in 1350-64 by John II of France (E) and in about 1420 by Tommaso Mocenigo representing the Venetian republic (F).



5 The English wool trade expanded rapidly after 1200. Raw wool was at first sent for

processing to the established cloth makers of Bruges, Florence and other centres in France

Flanders and Italy but their monopoly was broken by the growing export of English-made cloths



6 "The Triumph of Death" by Andrea Orcagna (c. 1308-68) was painted shortly after the Black Death of 1348. It depicts with terrifying realism the sufferings of the sick who beg to be released from the torments of plague. The theme of death and the instability of human fortune pervades the literature and art of the later fourteenth century and it is likely that this was an effect of the dramatic carnage of the plague. "No one wept for the dead," wrote a Sienese chronicler, Agnolo di Tura, "because everyone expected death himself." Survivors surveyed their shrunken world in a sombre mood.



7 The Jacquerie, a peasant rising which engulfed the Paris region in 1358, resulted from the disorder in France after the English captured King John II in 1356. The main grievance arose from attempts by landowners to keep down wages in a time of labour scarcity. All the fourteenth-century peasant rebellions had broadly similar causes.

8 The shepherds in "Nativity" by Hugo van der Goes (c. 1440-82) clearly drawn from peasant life show a marked individuality characteristic of the confident peasant culture of the age and exemplified also in the popular art of the woodcut. Compared with the animal skins of three centuries earlier, the clothes worn here are luxurious.



The origins of Parliament

The English Parliament has no definite origin; but it clearly came into existence during the thirteenth century. At that time, the word "Parliament" meant a special session of the king's Council with the judges present to hear petitions to the king from his subjects. Early "parliaments" were largely occasions for judicial business in the presence of the king's councillors or barons, where great matters could be decided more solemnly than could be done by the judges alone. In the reign of Henry III (reigned 1216-72), whose judges actively opposed baronial privileges, this was a widely popular precaution, and the greater the number of earls and barons, bishops and abbots present, the more definitive the settlement of the business. In this sense Parliament was a variation of the ancient king's Council.

Parliament and taxation

Parliament was not only judicial in function; it also provided an occasion for the king's subjects to give their consent to taxation and their advice on important matters. This function implied representation of the various

interests and communities by men with power to bind their constituents to their decisions. Taxation with the consent of such representatives was the general rule in the "Parliaments" called by Simon de Montfort (c. 1208-65) [1] to show the broad support for his rebellion of 1258-65.

Edward I (reigned 1272-1307) [2] defeated de Montfort's revolt in 1265, but during his reign all the various functions of Parliament came together: a session of the Council with as many councillors, barons and bishops present as possible; and representation of the shires by two knights, of the boroughs by two burgesses, and the clergy of the northern and southern provinces by procurators, all armed with plenipotentiary powers to grant taxes.

Advising the king

Although Edward I summoned representatives to only a few of his early parliaments, their presence became increasingly common as his need for funds grew, for without their consent taxes proved difficult to collect. By 1307, it was normal for individually sum-

moned lords and representatives of the "Commons" to meet each year. Parliament was the creation of the government for its own purposes, but it was also a call to the propertied classes to participate in the processes of government. This call was accepted with reluctance by shires and boroughs that were preoccupied with local affairs. Nevertheless their representatives came, and in a fourteenth-century parliament the "Commons" were generally represented by men who had experience on the countless local commissions of the peace, for the collection and assessment of taxes and so on, that shouldered the executive work of government. For instance, a certain John Morteyn, who was a large landowner, several times serving in the wars of Edward II (reigned 1307-27), a frequent member of commissions, and a strong partisan who evidently made enemies, acted nine times as Member of Parliament for Bedfordshire. Such men naturally had independent views, and their voice, joined with that of the lords, became increasingly influential.

Parliaments continued to hear petitions

CONNECTIONS

See also

1215 Magna Carta
1265 Simon de Montfort
1295 Westminster Hall
1307 Edward I
1327 Edward III
1351 Statute of Westminster
1376 Good Parliament
1406 Henry IV
1409 Henry IV
1413 Henry IV
1419 Henry IV
1422 Henry IV
1429 Henry IV
1436 Henry IV
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1 Simon de Montfort, whose shield is shown here, is sometimes said to have invented the English Parliament. To bolster his revolt against his brother-in-law Henry III he summoned a representative "parliament" in 1264. He genuinely believed in corporate, legal government, with frequent sessions of parliament to act as a bulwark against untrammelled royal or bureaucratic power. His ideas were later taken up by Edward I.

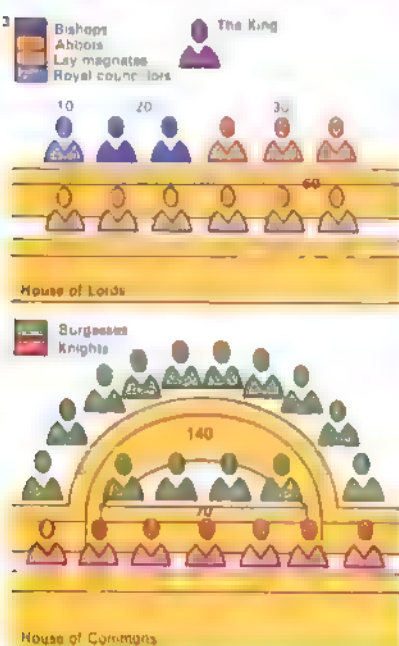


2 Edward I sits in Parliament with the kings of Scotland and Wales in this contemporary illustration, but in fact they never attended together. Behind them are royal princes and the archbishops. Barons and the other bishops sit down both sides, and in the centre are the judges, the councillors and the legal advisers of the Crown. The Commons and the procurators of the clergy (who must have outnumbered the rest) stand before the king.



3 The structure of Parliament was fairly settled after 1350. After a peer had been summoned once, he was usually automatically called to later parliaments, and many knights and burgesses were

chosen regularly. Some shires and boroughs did not bother to send representatives, as a result, the size of the Commons might vary. The royal councillors were a reminder of Parliament's original function.



4 The Chapter House at Westminster was the venue when the Commons first sat separately from the Lords. This was during the "Good Parliament" of 1376 when impeachment was first used against royal ministers for allegedly embezzling taxes for the

war. The step marked a clear realization that the Commons had a different role from the Lords. By this time they had already evolved a formal procedure and elected a speaker. The Chapter House was used by the Commons until the mid-16th century.

5 Thomas Hungerford (d. 1398) was one of the first recorded speakers of the Commons. A client of John of Gaunt, one of the main objects of the Good Parliament's attacks in 1376, Hungerford represented the

Commons the next year when Gaunt managed to reverse many of that Parliament's decisions. The speaker was elected by the Commons to be their spokesman, and also served as chairman of their debates. The

institution of Speaker crystallized the rising confidence of the Commons. In the 1400s it felt able to oppose the king himself, asserting that Parliament was more competent in administrative matters than the king.



and act as courts of justice, and to make grants of taxation to the Crown. But many parliaments did neither and it seems that it was their advice and on occasion their consent to legislation that was sought by Edward II and Edward III (reigned 1327-77). By 1370 statutes had to be promulgated by the king in Parliament, and the kind of business on which they legislated broadened in scope. The Statute of Labourers, 1351, arose from petitions by landowners to Parliament to control labourers' wages.

The Lords and the Commons

During the period 1370-1450 Parliament evolved its classical structure and procedure. The representatives of the lower clergy broke away to form their own "Convocation", and by 1376 Lords and Commons met as separate bodies. Both Lords and Commons developed as political bodies able to put pressure on the king's ministers. Their weapon was "impeachment", a judicial process in which the Commons as a body "appealed" or accused a minister before the Lords who acted as judges of the case.

Under Richard II (reigned 1377-99) and Henry IV (reigned 1399-1413), parliaments were keen to experiment with ways of influencing the processes of government: in 1377 they appointed special "war-treasurers" to supervise taxes granted for military purposes; in 1401 they proposed to grant no taxes before redress of grievances. In these demands, the Commons were led by a new kind of member: the national figure often himself a member of the Council, independent, outspoken and politically experienced, such as Arnold Savage, Speaker in 1401 and 1404. In the hands of such national "front-bench" politicians Parliament was ready to assume a central role in the politics of the fifteenth century. Its elections became the arenas for factions to assert their authority, and many leading noblemen acquired sizeable groups of supporters in the Commons. Henry VII (reigned 1485-1509) used Parliament to legitimize his dubious claim to the throne [7], but tried to reduce its incursions on the royal authority by cutting his expenditure so that Parliament would not have to be called so often.

KEY



The three estates, the division of society into knights, priests and

labourers, was basic to the concept of Parliament, but was not

directly expressed in the structure of the Lords and Commons

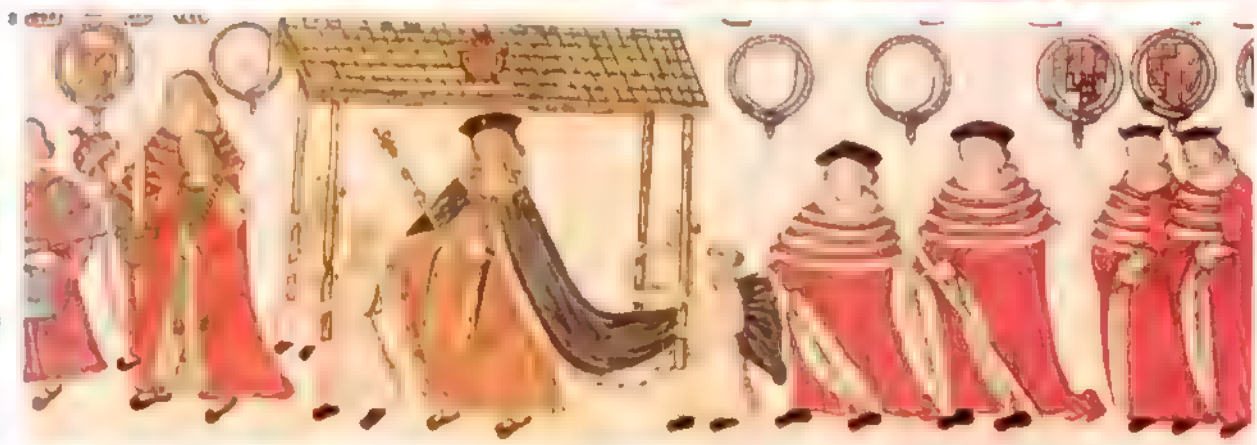


6 Westminster Hall, an 11th-century building, was reconstructed between 1394 and 1402. As the central hall of the king's palace, it was the usual place of formal sessions of Parliament in the Middle Ages. But sometimes, as in 1388, Parliament was held in the "White Hall".

7 Henry VII formally declared his claim to the throne in Parliament in 1485, and recorded it in the Statute Roll, in the already antique "Norman French" of legal documents. Unlike the long acts of Richard III and Edward IV declaring their titles upon intricate legal arguments, Henry's title rested simply on the declaration of Parliament. In this quite short bill it marks not only the succession of an entirely new dynasty, but also the recognition of the sovereign efficacy of Parliament. This foreshadowed the Parliamentary declaration of royal supremacy in 1534.



8 Henry VII opened Parliament in 1485 and tried to ensure that it acted as an ally of the Crown. His policies were well suited to the interests of the merchants who were prominent in the Commons: he significantly reduced the power of the Hanseatic League in England and in 1496 passed the *Magnus Intercursus* to improve trading relations with The Netherlands. But when Henry had consolidated his income, he called Parliament only in cases of abnormal expenditure.



futuri.

Da preteriti ut amatus.
Da futuri ut amandus.



...intra ... astra ... el conte agara.



The Hundred Years War

The conflict between the Plantagenet and Valois dynasties, lasting from 1337 to 1453, was marked by short campaigns, longer truces and periods of stalemate. Known as the Hundred Years War, it dominated the history of both England and France in the fourteenth and fifteenth centuries. Even after 1500 the threat of its resumption was a potent weapon in the hands of the English.

The start of the war

The origin of the war lay in the Norman Conquest itself. An Anglo-Norman empire was a reality up to 1204 and its shadow was pursued with energy by Henry III (reigned 1216–72). Gascony, which the Treaty of Paris (1259) left in English hands but effectively in remote dependence on the French Crown, proved a source of constant dispute. It would have remained merely a legal issue had Edward III (reigned 1327–77) not laid claim to the French throne [1] after the death of Charles IV (reigned 1322–8).

Although Edward's mother was a sister of Charles IV, the French nobles ruled out succession through females and decided that

Philip of Valois (1293–1350), as a cousin of Charles, had the best claim. He therefore became king as Philip VI. Despite this setback, Edward did not press his claim until public opinion had been sufficiently aroused by constant pinpricks over Gascony and French support for Scottish independence.

After war began in 1337 and the English won a naval victory at Sluys (1340) Edward relied on the traditional method of recruiting huge armies through subsidies to the princes of Germany and the Low Countries, which cost the English taxpayer enormous sums. Although his clumsy invasion of France ended in disaster through the deceit of his continental allies and shortage of money, the adaptable Edward learned quickly.

After 1340 he employed what could almost be called guerrilla tactics. He acquired footholds on the French coast, strongly fortified, which served as bases for devastating raids on the countryside. This had the advantage of requiring smaller forces than usual. More important, the profits of prisoners' ransoms and the plunder of the country [4] made the expeditions largely self-supporting and

attracted the nobility and ambitious but impoverished knights.

His tactics relied on speed and flexibility against the more numerous but rigidly arrayed mounted knights of France. His archers [7], although less accurate than the French crossbowmen, were highly effective from carefully chosen positions. At Crécy (1346) [Key] Edward inflicted a crushing defeat with a rain of arrows; at Poitiers his son, Edward the Black Prince (1330–76) [6], routed the French cavalry and captured John II (reigned 1350–64). Perhaps even more important was the capture of a base at Calais (1347) which remained as an English colony for two hundred years. By 1360 both sides were exhausted, and in return for peace at Brétigny the French agreed to abandon Gascony to Edward. From the English point of view the war seemed to have ended in victory.

Fighting for fortunes

Peace, however, proved illusory. The war was not really a conflict between nations: it had become a highly organized business

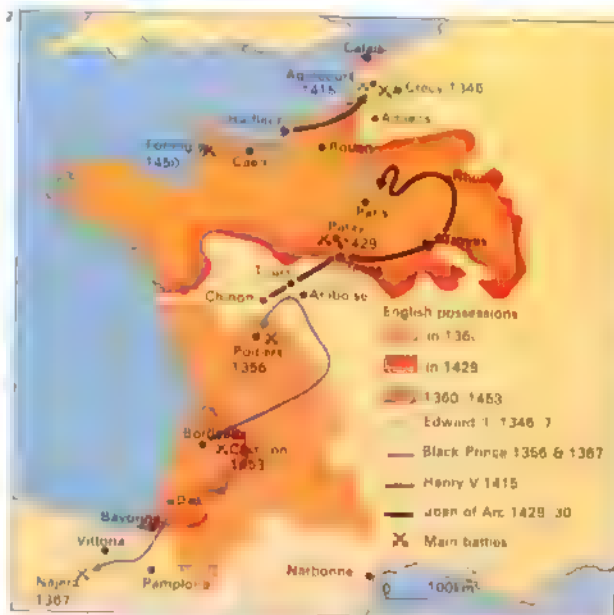
CONNECTIONS

See also

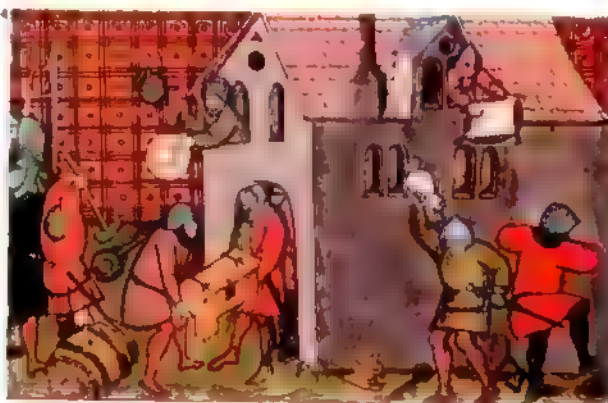


1 The fleur-de-lys was incorporated in the newly designed royal arms of England when Edward III assumed the title of King of France in 1340. He acted only after securing the support of the Flemish and discontented subjects of France. The arms and the title "King of France and England" lasted to 1801.

2 The English campaigns in Gascony and France consisted of plundering raids on most of western and northern France. Except for a few captured strongholds, from which ambitious and profitable expeditions could be launched there was little attempt to conquer French territory until Henry V invaded Normandy early in 1417.



3 Control of the Channel gave a decisive advantage in war and up to 1340 the French, with the help of the Genoese admiral Barbarossa, had been able to raid Southampton and show their flag at the mouth of the Thames. The decisive Battle of Sluys in which English vessels won the first important naval engagement in their history, marked the turning point. At the Battle of La Rochelle (shown here), fought in 1372, the Castilians, who were allied to the French, surprised an English fleet taking reinforcements to Gascony. This defeat ended the English domination of the Channel and was followed by defeat for the army in Gascony, marking a decline in the military fortunes of Edward III.



4 Plunder was one of the main reasons why ordinary soldiers took part in the war, regularly supplementing their wages. It could be acquired in two ways: by ransom or by capture of a place by storm. When a whole village or town was taken the

usual practice was to plunder it and subject the inhabitants to fire and the sword. When the Black Prince took Limoges in 1370 he not only permitted looting but put the entire garrison to death (after Calais fell) it was said that "every

Englishwoman was wearing its booty". The profits of war, especially for the victors, were great. When Henry V wanted to gain the good will of captured towns he managed to restrain his men from looting, but this was exceptional for the times.

enterprise for the exploitation of France. Individual captains such as Walter Mauny (died 1372) and John Chandos (died 1370) recruited soldiers by "indenture" or contract with pay for a limited period; they themselves signed similar contracts with the king which committed them to bring a specified number of soldiers [9].

Expeditions or cavalry raids such as that of the Black Prince in 1355-7 or of John of Gaunt (1340-99) in 1373 were designed to make a profit for the participants through plunder, levy of tribute from the countryside, and especially through prisoners' ransoms. Such ransoms were divided between the king and the captain who took the prisoner, and they could amount to huge sums. The ransom for King John of France was set at £500,000 (but was never fully paid) and even the humble prisoners of Mauny were sold by the captain to Edward for £8,000.

The resumption of war

As the war was fought on French soil the English made far more profit than their enemies, and they resumed hostilities in

1369. English victories were less common in the years before a "twenty-eight years' truce" was agreed in 1396.

The most spectacular phase of the war followed the accession of Henry V (reigned 1413-22). Henry was a military genius who could organize and discipline a large army for years on end, and his renewal of the war was immensely popular. His victory against superior forces at Agincourt (1415), followed by the systematic occupation of Normandy in 1417, was made possible by the feud between the Armagnac and Burgundian factions, and Henry's alliance with Burgundy. By the Treaty of Troyes (1420) Henry married Catherine, the daughter of Charles VI, and was made his heir with the intention of inaugurating a single Anglo-French monarchy. Although he died before this was fulfilled, Henry controlled the whole of northern France with his Burgundian allies, and his infant son, Henry VI (reigned 1422-60; 1470-71) held sway in Paris until 1435. By 1453 the revival of the House of Valois finally deprived the English of Normandy and even Gascony.



The Battle of Crécy was the first great English success of the land war, fought when the superior and

larger French army overtook Edward's forces who were making for Flanders. English archers

checked the French cavalry raid with concentrated fire and the French were almost totally destroyed.

5 Sieges dominated warfare in the later Middle Ages and were accompanied by strict conventions. Formal siege began when a herald of the besieging party demanded entry in his master's name. Once this was done the besieger could not retreat without dishonour.

The Duke of Burgundy excused his failure to take Calais in 1436 by claiming that he had never formally besieged it. If there was no hope of relief for a besieged castle or town, the honourable practice was for the captain to surrender. Mining the walls was the

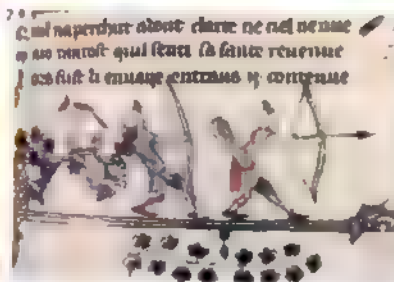
most common form of assault, by 1400 cannons had largely replaced siege engines. The command of a captured garrison was one of the greatest rewards that could be offered to a benefactor of the king, and, like other positions of responsibility might be highly profitable.



6 Edward, the Black Prince, the most notable knight of the age, and victor of Poitiers (1356), took his name from the black armour he wore. This effigy lies on top of his tomb in Canterbury Cathedral.



8 Colster Castle was built by Sir John Fastolf, the successful captain of Henry V and VI, about 1432-5. Made of brick, crenellated and surrounded by a moat, it cost several thousand pounds and indicates the wealth that Fastolf won in war. After the aggression of Henry V, English policy became more defensive, to preserve the profitable estates and towns from being recaptured. Charges of governmental mismanagement of the war became common in the 15th century.

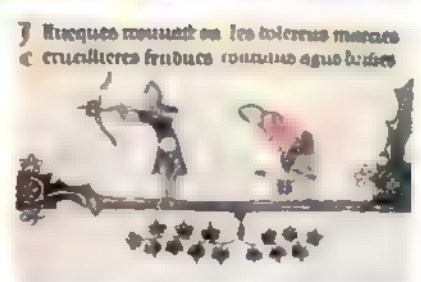


7 The skill of the English archers paved the way for several victories. The crossbow (right) was

an effective weapon that had been used to deadly effect in the Crusades. It was more accurate than

the longbow over short distances and had greater force, but it could not fire more than one arrow every

30 seconds. The longbow, 1.83m (6ft) long, could fire as many as six arrows in the same time.



| 9 shillings | pence | 10 marks |
|------------------|-------|----------|
| | | |
| Bannerets 7 | | |
| | | |
| Knights 74 | | |
| | | |
| Men at arms 132 | | |
| | | |
| Archers 5 | | |
| | | |
| Armoured men 200 | | |
| | | |

9 The armies of the Hundred Years War comprised companies recruited and trained by indentured captains who were noblemen or soldiers distinguished by their military ability. Captains contracted with the king to muster their men and fight in return

for wages. They usually led their men in specific military operations, designated in the contract. Captains subcontracted for men-at-arms. The foot soldiers and archers were often volunteers, but many were recruited by commissions of

array" which were appointed for each county. The offer of good wages and free pardons stimulated recruitment, and often there were more volunteers than the king could employ. This diagram shows the retinue of the Earl of Northampton in 1341.

The system proved more flexible than the old system of feudal obligations. The short-term contracts were soon applied to peacetime relationships between lord and servant, and were instrumental in the growth of "bastard feudalism."

The age of Chaucer

Thanks to the poet Geoffrey Chaucer (c. 1345–1400) [Key] the late fourteenth century is more vivid than any other period of medieval English history. In his *Canterbury Tales* (c. 1385–1400), he describes the pilgrimage, which was a social event that united all classes, and through his immortal sketches of the various pilgrims and the tales they tell along the way he unfolds an ironical, dispassionate but profoundly sympathetic vision of English society [3].

Chaucer's chequered career

Chaucer himself, with his many-sided experience of life, was perhaps uniquely placed to interpret his age. The son of a London vintner, he learnt the world of the court through his service with Lionel, Duke of Clarence (1338–68), and later with John of Gaunt, Duke of Lancaster (1340–99). He served in the French wars and as a diplomatic agent of Edward III (reigned 1327–77); he was a Justice of the Peace in Kent, sat in parliament for the shire, and was a controller in the port of London. He was several times both creditor and debtor, suffered robbery from high-

waymen and was perhaps guilty of rape. London and the court were his special province, and Chaucer the poet probably had in mind a sophisticated court audience. This did not limit his appeal because he was widely known by all classes in his own lifetime.

The growth of a court culture

The age of Chaucer was distinguished by the emergence under Edward III and Richard II (reigned 1377–99) [4] of a "court", in the sense of a luxurious and fashionable cultural centre. It was sustained by London's new role as the unchallenged metropolis of England, and imbued with the delicate tastes of the rival "court" in Paris. The transformation of a somewhat provincial aristocracy into worldly, elegant courtiers can be observed in many innovations of Chaucer's lifetime: the luxurious appointments of Edward III's new palaces at Eltham and Sheen; the changing fashions of court ladies; the new, subtle style of cuisine, the taste for witty songs and elegant dances, and for poems and stories of delicate refinement, such as Chaucer's *Book of the Duchess* (1369), a lament for the

Duchess of Lancaster, or with a touch of irony, such as his philosophical tragedy *Troilus and Criseyde* (c. 1385) [Key].

Court culture, however, was not simply exquisite or exclusive. At its heart was the broad experience of the world given to men of all classes by the Hundred Years War. This tough but liberating experience gave the nobility an extrovert interest in the ordinary life and character of the ploughman as well as the prince. Chaucer's *Canterbury Tales* with their rich, earthy realism, or the scenes of London low life by Thomas Hoccleve [2], were not only for the nobility but also a much wider audience – the now literate middling townsmen and countrymen.

The Peasants' Revolt

The period of Chaucer's maturity, from the resumption of the war with France in 1369 to the deposition of Richard II in 1399, was the testing-ground of a new popular attention to the activities of government. It was punctuated with eruptions of opposition, sometimes in parliamentary form as in 1376 and 1386, sometimes in a violent defiance of

CONNECTIONS

See also
The Hundred Years War

The origins of Parliament
Feudalism
European society 250–1450
Gothic art of the 14th century
The church in medieval England



1 The England of the *Canterbury Tales* was mainly confined to the south-eastern part of the country, and was dominated by London and, of course, Canterbury, to which the pilgrims were journeying to visit the tomb of St Thomas à Becket (c. 1118–70). Even though the population of every other town in the country had fallen since 1330 because of the ravages of the Black Death, London's continued to rise because of constant immigration, and it stood at more than 50,000 in 1400. South-east England was the richest and most populous area at that time and the dialect of the south-eastern Midlands was becoming accepted as standard English in the court.



2 Thomas Hoccleve (c. 1370–c. 1450) is shown presenting his book, *Regement of Princes* to the Prince of Wales, who later became Henry V (r. 1413–22). As in this case, a "patron" was often merely a potential benefactor of the poet who hoped to gain favour by presenting the book. Patronage from a notable member of court was necessary to win a poet recognition, and perhaps a job to enable him to live. Hoccleve was a clerk of the Privy Seal, where his duty was to clothe royal orders and proclamations in elegant prose. His poetry is notable for its realistic and acute observations of life in the London taverns, and centres on his own involvement in that life.

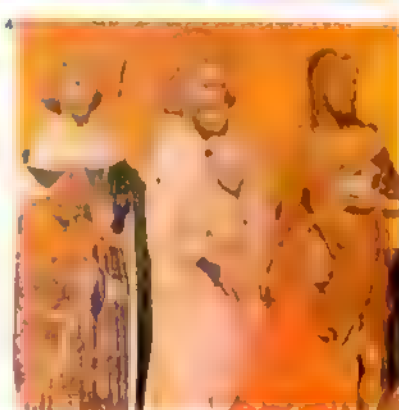
3 Chaucer's pilgrims were depicted on the Ellesmere manuscript, an authoritative illuminated text of c. 1400–10, which may have been written for Chaucer's son Thomas (c. 1367–1434). Shown here are [A] the mer-

chant "with a forked beard" in moteslee. As a customs officer, Chaucer was familiar with such great international merchants. The Nun's Priest [B] is not described in the Prologue, but the tale of the Chante-

cleer reveals a distinctly witty cleric, even if riding a "jade" a horse "both foul and lame". The Wife of Bath [D] is one of Chaucer's most vivid portraits, a middle-aged Venus with a huge amorous ap-

petite who had had five husbands, she was outrageously dressed. The brawny miller [F] was, like most of his type, enterprising and thrusting, benefiting from his lord's monopoly of milling, and the squire [C] was an apprentice

in the arts of war and love. Chaucer himself had been a squire in the household of Lionel, Duke of Clarence. The Prioress [E], "ful simple and coy" was an exquisitely ironic sketch of an over-refined lady.



4 The portrait of Richard II on the Winton Diptych, probably painted for the king himself c. 1395, is by far the best portrait of a medieval English king, and exemplifies the finest achievements of the court culture of his reign. On the back of

the diptych the king's emblem – the white hart – is depicted with refinement, probably by John Siferwas, and on the front Richard is seen being ushered into heaven by his patrons Edward the Confessor and Edmund the Martyr. Its painter is unknown.



royal authority, as in 1387-8, when the "Lords Appellant" attacked the court favourites, and as in 1399, when Henry Bolingbroke (1367-1413) overthrew Richard II. Religious controversy, too, was heard at court, stimulated by John Wycliffe (c. 1328-84) and supported by John of Gaunt and the so-called Lollard knights.

The greatest explosion of all came from the humbler folk of town and country, in the "Peasants' Revolt" of 1381. The name is misleading, for it was really a movement of substantial farmers and tradesmen with a following of farm labourers, infuriated by the constant war-taxation and the arrogance of the officials who collected it.

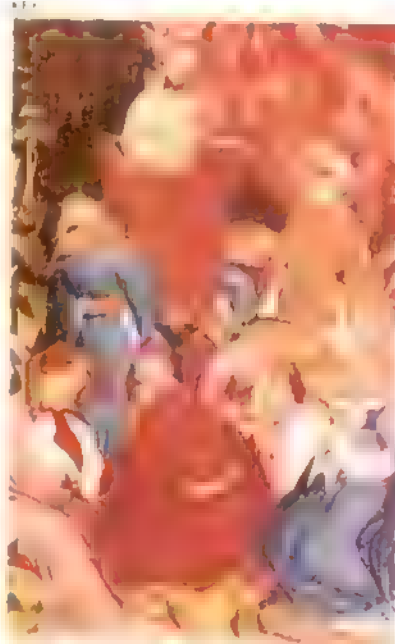
This followed the social unrest caused by the Black Death [5] and its consequent recession and upheavals. The Statute of Labourers (1351) tried to restrict the rise in wages that followed the plague. The unrest was expressed by William Langland (c. 1332-1400) in his poem *Piers Plowman* (c. 1362).

Beginning in Essex in June 1381, when one village erupted and killed a tax-collector, the revolt spread as other villages heard of

the event [7]. It became a more serious threat when the men of Kent, led by a veteran of the wars, Wat Tyler (died 1381), marched upon London. The 14-year-old Richard II parleyed with them, first at Mile End and then at Smithfield, and promised to grant their demands - an end to serfdom and the dispossession of the nobility and the Church. At Smithfield, however, the Mayor of London, William Walworth, killed Wat Tyler [9], and Richard, with presence of mind and courage, forthwith persuaded the insurgents to disperse. Reprisals began once the rebels had returned home.

Although the revolt was against a government hated by most people, the excesses of the peasants and their demand for social emancipation alienated the landed classes. Parliament insisted on severe punishment.

Local riots were frequent in subsequent years, the government never again dared to tax the ordinary villager so heavily, and serfdom gradually disappeared in the following generations. In the increasingly complex society of the time, the peasants had shown that they too had interests to protect.



Geoffrey Chaucer regularly read his poems to his audience in the royal court. *Troilus and Criseyde*, which he is reading here, is a fine example of his narrative style. Its plot being based on a story by the Italian poet Giovanni Boccaccio (1313-75). Such borrowing from a foreign culture was typical of the international atmosphere of the court. Chaucer may have met Boccaccio on a diplomatic visit to Italy in the 1370s. The theme of the poem is the traditional one of courtly love, treated with a new attention to personality and emotion. The seduction of high born ladies was a favourite pastime of Chaucer's audience, and Edward III set an example with his mistress Alice Perrers.



5 The Black Death (1348-50) killed probably a third of the population and recurred throughout the next 50 years. The shortage of labour thus created led the peasants to more demands for higher wages.

6 John Ball (d. 1381) was an ex-priest who had been imprisoned for heresy in 1360. He voiced the most radical ideas of the rebels demanding an end to ancient distinctions between lord and serf.



7 The Peasant's Revolt occurred mainly in the south-east, the rebels in Essex were in touch with those in Kent, from which the main march on London began, and townsmen were involved as much as countrymen. St Albans, Bury, St Edmunds and

towns in Norfolk all suffered violent movements. A Norfolk man even proclaimed himself king. Isolated incidents occurred as far away as York and Bridgewater, Somerset. In general, risings took place in the prosperous areas where legal restraints such

as villeinage no longer had any economic function and merely restricted the virtually independent farmer from pursuing his own fortunes. In addition the London mob was a particularly volatile element in English society, as it would be for many centuries.



8 The rebels burned the Savoy Palace of John of Gaunt, and the house of the Chancellor, Sudbury. After the king spoke to the rebels at Mile End they entered the Tower unopposed and executed Sudbury.

9 Wat Tyler was killed by the Mayor of London two days after the rebels entered the city. His death ended this unity of purpose as they had possessed. He was described as 'endowed with much sense'.



Gothic art of the 14th century

Building and the decorative arts from the end of the thirteenth century to the end of the fourteenth century combine grace with naturalism. The source was French Rayonnant – the radiating style, best seen in rose windows, but by the end of the period a new style – International Gothic – had developed.

At the beginning of the period, buildings became larger and more elaborate. In England the rebuilding, on a grand scale, of the east end of Old St Paul's, London (1256–c. 1328) inspired the square-ended Angel Choir of Lincoln Cathedral (1256–80) and the new Exeter Cathedral (c. 1280–1375). Towers with spires became popular – for instance Salisbury (1330), by Richard Fairles. Capitals (heads of columns), bosses (ornamental knobs) and corbels (stones that support wall shafts) were richly ornamented, hence the name “decorated” for this style.

The use of wood

Many impressive effects were achieved by using wood instead of stone. The nave of York Minster (1291–1345) was given a wood vault that may have been the model for later

Continental net vaults. The idea may have come from the Chapter House at York, which did not include a central column – an innovation taken further at Ely, near Cambridge [Key].

Gradually wood was recognized as a building material in its own right. Elaborate roofs were built, such as that of Westminster Hall (1390s), although even here stone construction includes details such as the tracery panelling above the arches. Tracery was first applied in France about 1250, but was not taken up in England until the building of St Stephen's Chapel, Palace of Westminster in about 1310. English “panel” tracery then developed and fitted well with the simplified lines of Perpendicular architecture as exemplified by York choir and Canterbury nave [3]. It was even applied to vaults; probably first at Tewkesbury [1], then as fan vaulting at Gloucester (after 1357).

European architecture followed the Rayonnant style of the thirteenth century, increasing in scale. Beauvais – the tallest cathedral of all – had a choir vault of 48m (157ft), which collapsed in 1275. Cologne

incorporated five aisles, and Strasbourg was designed with two western spires, the second of which was never built.

After the middle of the fourteenth century, France did not rival the inventiveness of Germany and Bohemia. The dominant German architects were the Parler family, the eldest of whom had worked at Cologne. His design for Schwäbisch Gmünd [6] became a model for the great town churches of southern Germany in the later Middle Ages in which, with nave and aisles of equal width and height, greater prominence was given to the windows and vault. Such constructions are known as hall-churches.

Developments in Italy

Italian architects tried to graft northern Gothic ideas of scale and ornament onto a Romanesque tradition. The results were picturesque, but often structurally over-ambitious. Work on the new Florence Cathedral, begun in 1296, had reached the crossing in 1367 when it was realized that no one knew how to vault such a space. (Brunelleschi finally solved the problem in the 1420s)

CONNECTIONS

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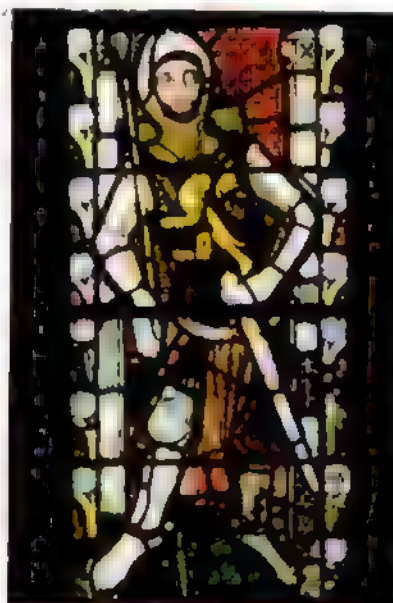
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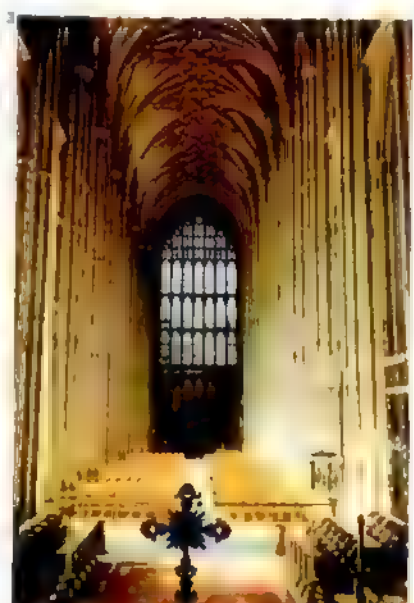
100 The Gothic Revival



1 The additions at Tewkesbury Abbey in the early 1300s transformed a plain Norman choir into a sumptuous burial chapel for members of the Despenser family. The church was also vaulted throughout.

2 The stained-glass programme in the clerestory windows of Tewkesbury included a series of armoured knights, these were the counterparts of the effigies on the canopied Despenser tombs in the chancel.

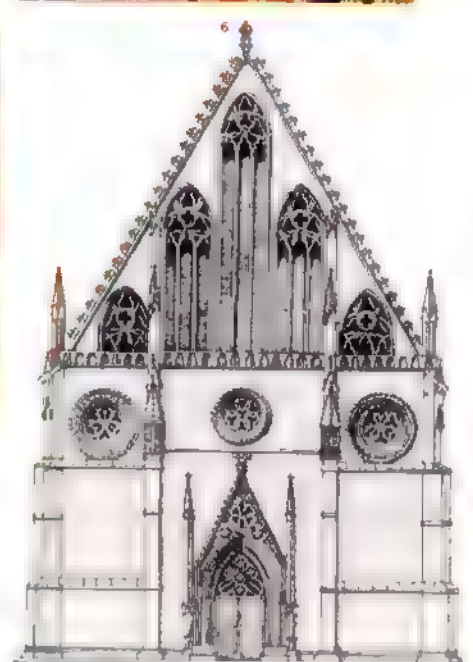
3 The nave of Canterbury Cathedral (1378–1405) followed the new fashion for a greater delicacy of line. Originally it also had stained glass throughout, but little is left of its splendour.



4 A new interest in tapestry was shown in the graceful decoration (largely by Italian artists) of the Papal Palace, Avignon. The papacy had retreated there from Rome in 1309, transforming a fortress into a series of elegant apartments.

5 The Angers tapestries were used for interior decoration. Their subject, however, was religious, for they were based on an illustrated apocalypse manuscript owned by the French king Charles V, who commissioned seven tapestries in 1377.

6 At Schwäbisch Gmünd in Germany, the Church of the Holy Cross was built as a hall church by Heinrich Parler. Although influential, the design was not original, being based on that of St Elizabeth, Marburg. The choir was begun 1361.



and 1430s) Siena Cathedral reflects the aspirations of its citizens [7,10], at Bologna the San Petronio remained unfinished, and Milan Cathedral, begun in 1387, was finished only in the nineteenth century.

A greater contribution was made by Italy in the field of sculpture. Although everywhere this remained closely connected with architecture, figures were conceived more and more in the round. In the thirteenth century Nicola (c. 1225–c. 1284) and Giovanni Pisano (c. 1250–c. 1320) and Arnolfo di Cambio began this trend towards sculpture as a work of art in its own right.

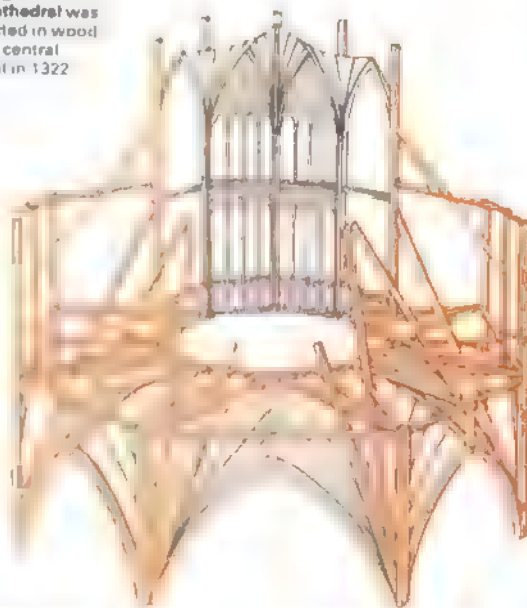
Developments in painting

In contrast to architecture, little northern European painting survives. Some English panel paintings are of high quality, but whether they were done by English or French artists is uncertain. For example, the faces on the reredos (altar shelf) in Westminster Abbey (late thirteenth century), the Wilton Diptych and the portrait of Richard II in Westminster Abbey (both late fourteenth century) are all of uncertain origin.

In contrast, illuminated manuscripts of high quality survive in large numbers. Perhaps the first to combine naturalism and grace was the *Douce Apocalypse* of the early 1270s. Religious texts began to show scenes from everyday life as well as traditional subjects. For instance, the late thirteenth-century Windmill Psalter is full of accurate portraits of birds. Marginal illustrations to the Luttrell Psalter (c. 1340) show scenes of country and farming life.

Italy has been much luckier in the survival of its pictures, which show a similar progression. Coppo di Marcovaldo's *Madonnas* at Siena (1260) and Orvieto (c. 1265), still in the Byzantine tradition, are now seen as seated human beings. Cimabue's *Santa Croce* crucifix (1283) [8] shows an understanding of anatomy and a delight in transparent drapery, while in his frescoes at Assisi (c. 1280) he experimented with perspective for the first time since the Roman era. An understanding of depth and form is clear in the works of Ambrogio Lorenzetti (flourished 1319–48), as in the fresco at the Chapter House of San Francesco, Siena [11].

10 The octagonal lantern of Ely Cathedral was constructed in wood after the central tower fell in 1322.



7 The figure of prophet Isaiah, now in the Cathedral Museum at Siena, was one of the large figures sculpted by Giovanni Pisano for his west front of Siena Cathedral (1284–1300, unfinished).

8 The realism of Cimabue's *Santa Croce* painted crucifix provided a challenge for contemporary painters. It marked a departure from the Byzantine tradition and brought a new freedom to Italian painting.



10 Siena Cathedral had later Gothic additions to the west front. Aisle and clerestory windows received tracery; the vault was raised and the choir built out over the precipice (with a baptistery

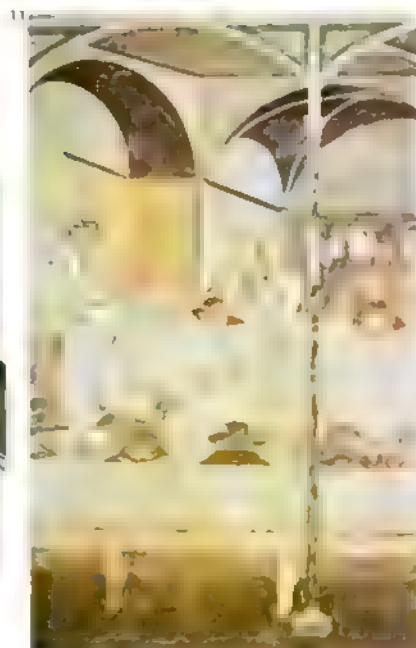
below). Finally a gigantic new nave was to have been constructed southward from the hexagonal crossing, for which the existing nave and choir would have been merely transepts. Insufficient

buttressing made this unsafe and the project was abandoned, but the new aisle walls and vaults remain embedded in later buildings.



9 The Arena chapel at Padua was entirely decorated with frescoes by Giotto (1266–1337) about 1305. Enrico Scrovegni, a moneylender (here presenting a model of the chapel) paid for the work.

11 Ambrogio Lorenzetti brought new realism to portraiture in his frescoes in the church of St. Francesco, Siena (c. 1329). Except for scenes from the life of St. Francis, as in the basilica at Assisi, near contemporary events did not usually appear in frescoes. This scene shows St. Louis of Toulouse (canonized 1317) being received at Avignon by the Pope who is seated to the left, while worldly wise cardinals and courtiers look on.



Gothic art 1400–1550

Art in Europe during the late Middle Ages can be seen as a further development of the International Gothic style. Delight in things colourful, courtly and complex is found in all branches of art and architecture, although obviously there are regional variations.

Gothic art and patronage

In Italy the love of Gothic decoration and rich materials persisted in the work of Gentile da Fabriano (c. 1370–c. 1427) and Benozzo Gozzoli (c. 1420–97). In the north of Europe, International Gothic had no rival. On the whole, there was a redoubling of decorative detail in parallel with increasing realism. For example, the animals, birds and plants that surround the principal figures in the tapestries of the 'Lady with the Unicorn' [5] stand out in lifelike detail. This is probably helped by the novel use of red instead of the usual blue for the ground. As a result, blue and green could be used for modelling without spoiling the overall effect.

Almost everywhere, panel paintings are known to have been a popular art form for use as altarpieces, but few have survived

other than Flemish or German ones. In contrast, illuminated manuscripts have suffered much less. Books of Hours [1, 8] seem to have been extremely popular. These were service-books for wealthy laymen, and especially for ladies, and they appear to have been objects of prestige and pleasure. The *Bedford Hours*, for example, was given to King Henry VI for Christmas when he was a boy.

By no means all patronage came from the aristocracy; however, the 'Lady with the Unicorn' tapestries were commissioned by a family of the high bourgeoisie rather than of the nobility. The patronage of this section of society was extremely important during the period. Many outstanding English manor houses were owned by merchants, for example, Hever Castle in Kent was bought by Sir Geoffrey Boleyn, a mercer, in 1462. The house of Jacques Coeur in Bourges [3] is a French example of property being accumulated by the merchant classes. Merchants founded charitable institutions like Browne's Hospital in Stamford, Lincolnshire (around 1490). They also financed the building of many great 'wool-churches' in East Anglia

In Europe generally, and especially in central Europe, this was the great age of the parish church, paid for by the local trading community but often built on a cathedral scale.

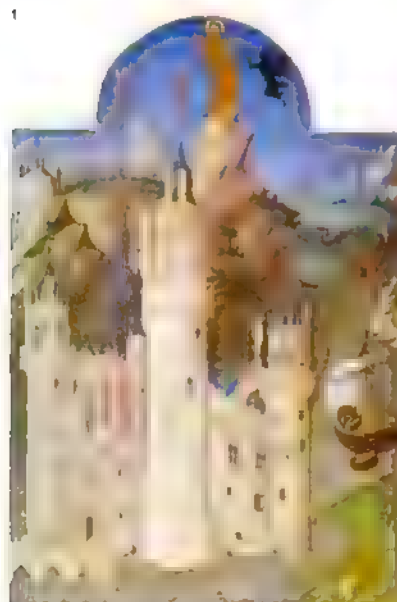
Late Gothic architecture

In Europe, late Gothic architecture tends towards the exotic. For the French version with its flame-like tracery rippling over walls as well as in windows, the term 'flamboyant' is appropriately used. Examples can be seen at Rouen (St Maclou), Caudebec in Normandy and Notre Dame de l'Épine near Nancy. In the Iberian Peninsula plant-like decoration was popular. In Germany and Bohemia architects became adept at designing ingenious new patterns for vaults. Net-vaults were extremely popular. Instead of the ribs splaying out from the supports and crossing each other at various angles, the whole area was covered by a fretwork of parallel ribs. Sometimes nave and aisles are treated together, at other there is a different pattern for each area, and at Nördlingen in Bavaria there are three distinct patterns for the nave alone.

CONNECTIONS

Read first

See also



1 Mehun-sur-Yèvre, the favourite castle of the Duc de Berry. It was made even more fantastical in this illustration to his manuscript the *Tres Riches Heures*, by the Limbours, than it was in reality.

2 The ruins of the Château de La Ferté Millon, built for a cousin of the Duc de Berry, give some idea of how fantasy castles really looked, even though it has now lost the greater part of its ornamentation.



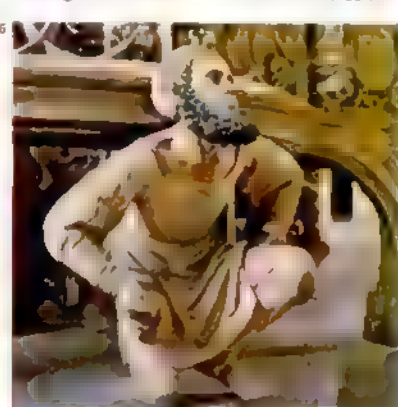
3 The house of Jacques Coeur in Bourges (mid 15th century) was also a warehouse. Coeur was an immensely successful merchant who built a small palace from which to carry on his business. He

paid for the restoration of Bourges Cathedral in return for which the pope made his son an archbishop. He took the unusual step of having these statues of himself and his wife Macée leaning from behind

stone balconies added to the façade of the building. It was at this time that merchants throughout western Europe were having more influence on the arts as their purchasing power increased with wealth.

4 In St Stephen's, Vienna, the architectural canopies above figures of the Hapsburg emperors were designed c. 1400 as a three-light unit with convincing perspective to give an illusion of depth.

5 The six French tapestries of the 'Lady with the Unicorn' in Paris were made about 1500 for the Le Viste family and illustrate the five senses. The sense of taste is shown here.



6 Little is known of medieval masons and builders, and portraits are rare. Adam Kraft (c. 1450–c. 1500) carved himself holding a mallet and chisel as one of the 'Atlas' supports in the Sacrament House of the Church of St Lorenz.

Nuremberg (1483). In sculpting this church he took the opportunity to invent architectural forms that did not have to bear any weight and which would writhen right up to the vault. He introduced a new restraint into late Gothic sculpture.



An alternative to the net-vault is to make the ribs curve sinuously across the surface of the vault. This makes flower-like effects as at Wasserburg in Germany, and invites such excesses as making the rib appear to jump diagonally across the space of a window, as at Kutna Hora in Czechoslovakia.

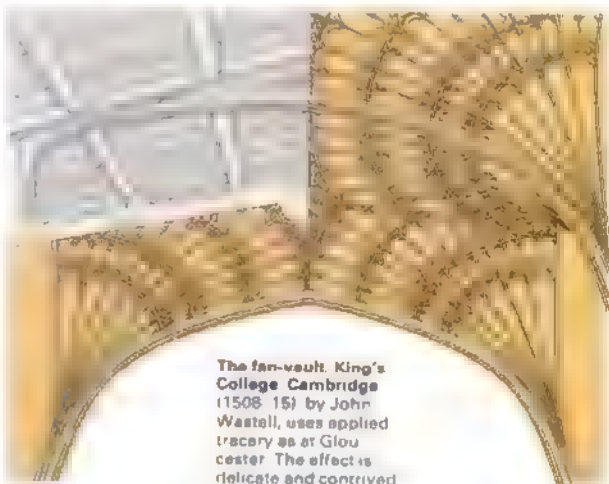
Similar artistry was lavished on the small structures that make up church furnishings: fonts, pulpits and especially containers for the sacrament. These architectural motifs were repeated in the stained glass, which was often provided to add colour to the interiors [9], and especially in the wooden altarpieces, which are such outstanding works of art of the period. Tilman Riemenschneider and Veit Stoss are justifiably the most famous carvers and sculptors of this period: their figures are so lifelike as to appear portraits, yet they are stylized in order to fit naturally into the narrative subjects.

English architecture

English architects created a style known as Perpendicular, lavishing their efforts on vaults, with elaborate wooden angel-roofs as

a substitute in smaller structures. Many vaults are variations of the lierne design (a system of smaller connecting ribs) of Canterbury for instance, York Minster choir (c. 1400). Others like Bath Abbey, Sherborne Abbey (c. 1430 to c. 1500 in stages), St George's Chapel, Windsor (begun 1481) and Henry VII's Chapel at Westminster, develop the idea of "fan" vaults (Key) first initiated in the cloister at Gloucester during the previous century.

In the late Gothic period, windows generally became larger and included brilliant displays of stained glass. But in most decorative forms of the fifteenth century there is less variety than in the fourteenth, a trend that led, for example, to numerous instances of the same cartoon being used for stained glass in different churches. An example is the figure of St John the Evangelist in Sherborne Almshouse, Dorset, which is repeated at East Brent in Somerset. Such repetition, both in art and architecture, reduced the original freshness and inventiveness of the Gothic style, permitting a readier acceptance of the Renaissance in northern Europe.



The fan-vault, King's College Cambridge (1508-15) by John Wastell, uses applied tracery as at Gloucester. The effect is delicate and contrived even on this scale.

7 The Royal Pew in St Vitus' Cathedral, Prague, demonstrates a different illusionism from that of the Church of St Lorenz. At Prague the normal stone rib construction is carved to imitate

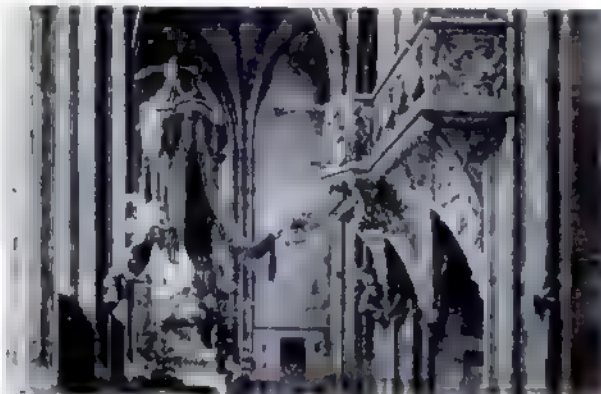
wood with its knots and forks. Benedict Ried's Vladislav Hall (1487-1502) and stairs in Hradčany Castle nearby have ribs that intersect and overshoot each other as if they were single branches.

8 The Hastings Hours (c. 1480) which includes a portrait of Edward V contains detailed studies of wild and garden flowers and this picture of the royal barge on the River Thames



9 The Beauchamp Chapel (c. 1447) of St Mary's Church, Warwick, was a religious enterprise financed by lay patronage. No expense was spared over the sculpture of the Warwick tombs or the

stained glass that fills the windows on three sides of the chapel. It includes a series of angels holding a continuous scroll of the Te Deum and magnificent figures in the east windows.



10 The Great Hall of Hampton Court Palace was built by Henry VIII in 1531-6 after the fall of Cardinal Wolsey. As at Warwick, all details were planned together to produce a rich effect. The

hammer-beam roof with elaborate pendants, was carved by Richard Rydges of London. Armonal glass filled the windows and imported tapestries lined the walls of this domestic interior.

11 The cones of ribs in the vault of Oxford University Divinity School (1483) are designed to hang free as pendants. On a small scale this is the principle of the fan vault in Henry VII's Chapel at Westminster Abbey (1503-19). The panels of tracery ribs there are merely carved on the surface of the stone slabs of which the vault is constructed. This is a measure of the development of vaulting - that the load-bearers could be treated as ornament.



The Ottoman Empire to 1600

The Ottoman Turks or Osmanlis (so called after their founder Osman, who died in 1326) began as Muslim warriors who patrolled the eastern borders of the Byzantine world. Osman's military genius raised them from nomadic tribesmen lacking any political institutions or national consciousness to become the formidable potential masters of a great empire by the mid-fourteenth century.

Osman's son and successor, Orkhan (ruled 1326–c. 1360) defeated a Byzantine army sent against him in 1329 and went on to capture Nicaea (Iznik) and other Greek cities. He annexed the neighbouring Turkish principality of Karasi. But his success in the holy war against the Christians attracted numerous other Turkoman warriors voluntarily to his lucrative service. Before 1453, the emerging Ottoman state held more lands of greater extent in eastern Europe than its considerable provinces in Asia Minor.

An era of expansion

By the time Orkhan's son Suleiman had set himself up in Gallipoli in 1354, the Ottomans commanded a large enough army to begin

major campaigns against Europe. Murad I, Suleiman's brother and Orkhan's successor, took Adrianople and by 1365 had made it his European capital, thus establishing a pattern of conquest whereby the Turks took over a Greek capital and with it the machinery both of government and Church administration; they employed the local clergy as tax collectors and held them responsible for the behaviour of their charges. The average peasant was allowed as much freedom as he had enjoyed under Greek rule, if not more. Ottoman society was very flexible and the success of the Turks was in part due to the greater opportunities they offered to the peasant class.

The move westwards was halted momentarily during the latter part of the fourteenth century by the incursions into Anatolia of the Tatar ruler Timur (Tamerlane). Timur set up independent Turkoman emirates and although these did not survive long, their existence demonstrated the weakness of the empire. As long as the Ottoman objective remained the conquest of European territory (and the militarist structure of the state made

constant expansion a necessity) Anatolia, so vital to the survival of the empire, would be vulnerable to attack and internal revolt.

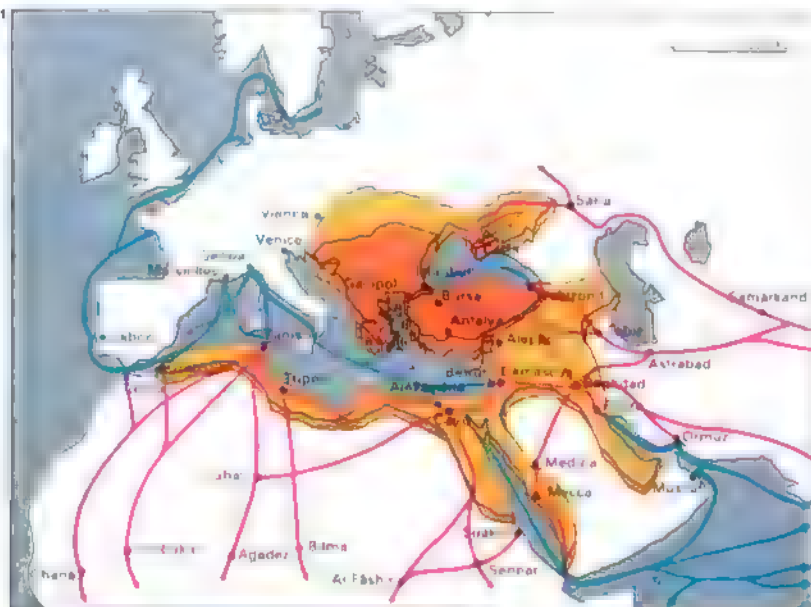
The golden age

The golden age of Ottoman power occurred under Murad II (ruled 1421–51) and his son Mohammed II (ruled 1451–81). Murad was responsible for the creation of the Janissaries [Key], a corps of troops and administrators conscripted from among the Christians of the Balkans and raised to unquestioning obedience. This levy, called the *devşirme*, created a new social class whose fortunes were identified with those of the sultanate.

Mohammed II, called "The Conqueror", was responsible for the demise of the Byzantine Empire. In 1453, after a prolonged siege, he took Constantinople (now Istanbul) [3, 4], thus giving the empire the cultural and administrative centre it had lacked. Mohammed's achievement was to reunite the old Eastern Empire under a single sovereign. The translation of the sultan and his court to the new capital finally brought about the triumph of the *devşirme* faction over the old

CONNECTIONS

See also
Anatolia, and the rise of
the empire
The golden age of the empire



1 The major east-west trade routes were taken over by the Ottoman Empire as it absorbed the old Greek world. Trading stations in the Peloponnese, along the Sea of Marmara and also in Cyprus, came under attack. But commercial interest was only one motive for Turkish aggression and trade profits were sometimes sacrificed to the overriding economic need for military expansion by the Ottoman state into the non-Islamic realms of Europe.

2 Caravanserais were built as staging inns for the camel caravans that carried trade for the Ottoman Empire on a vast network of overland routes to and from the East. These routes declined when Portugal traded with India by sea.

The traditional caravanserai, following the Persian model, consisted of a two-tiered building with a lower floor that consisted of stables built round an open courtyard. The oldest of these buildings still standing dates back to about 1080.



3 When Constantinople (seen here on a 15th-century map) fell in 1453 a new phase opened in Ottoman history. The great city had long been the focus of Turkish ambition, but repeated attempts to over-

come it had failed. When at last the old Byzantine capital was taken it became the Ottoman Empire's cultural and administrative centre.

4 The Topkapı Sarayı or Old Palace was built by Mohammed II, the conqueror of Constantinople, on the site of the old Acropolis. One of

the earliest Ottoman buildings in the new capital, it was the sultan's official residence and also housed the harem. It was built round a series of courtyards and was conceived on a grand scale.



Turkoman nobility, but it also removed the centre of power away from Anatolia, which was to weaken still further the all-important eastern frontier.

The next major period of expansion occurred under Suleiman I, 'The Magnificent' (ruled 1520–66) [5, 6], who took the empire still farther into Europe. The main force of the attack fell on Hungary, which in 1526 became a vassal state of the sultan. But the need to maintain a strong presence in Anatolia and the problems of supply and transport over such vast areas meant that no farther westward expansion was feasible. The siege of Vienna in 1529 [6] was a failure. The struggle by sea, however, continued, for the shipbuilding yards at Constantinople had made the Ottomans a major sea power. It was the Battle of Lepanto in 1571 [8] that reduced Turkish naval power and drove the Turks back into the eastern Mediterranean.

Decline and fall

Throughout the late fifteenth and the sixteenth centuries the two superpowers, the Ottomans and the Hapsburgs, faced each

other menacingly. But by 1600 Ottoman power began to decline as a result of internal discord, factional struggles and harem politics at the centre, as well as constant pressure on the eastern frontiers. A revival occurred in the mid-seventeenth century but the second siege of Vienna failed in 1683.

The Ottoman Empire remained throughout its long history essentially tribal in structure. The divan, the sultan's administrative body, had only slight powers and although after the reign of Suleiman the grand vizier came increasingly to rule the empire, his position was always tenuous and provided no means for an easy succession on his death or loss of favour. The distribution of land in *timars*, quasi-feudal grants, never created a landed nobility that could identify itself with the sultan and although the *devshirme* gave the sultan a strong military power base, they also alienated him from the Turkoman nobility and became themselves in time a threat to his security. Despite its internal weaknesses the Ottoman Empire succeeded in knitting into a single race a group of scattered nomadic tribesmen

REV



The Janissaries were recruited from Balkan Christians taken at the capture of Adrianople and reared as Muslims with unquestioning obedience to the sultan. They were not only the army's best soldiers but after they had received *timars* (land grants), they formed a social class. Because they had no links with any of the traditional tribal groups, they became the sultan's chief defence against the Turkoman nobles who resented attempts to curtail their autonomy. After the 1600s, the sultanate declined and the Janissaries, like the barbarians in the Roman army in the 3rd century, came to manipulate rather than uphold the government.

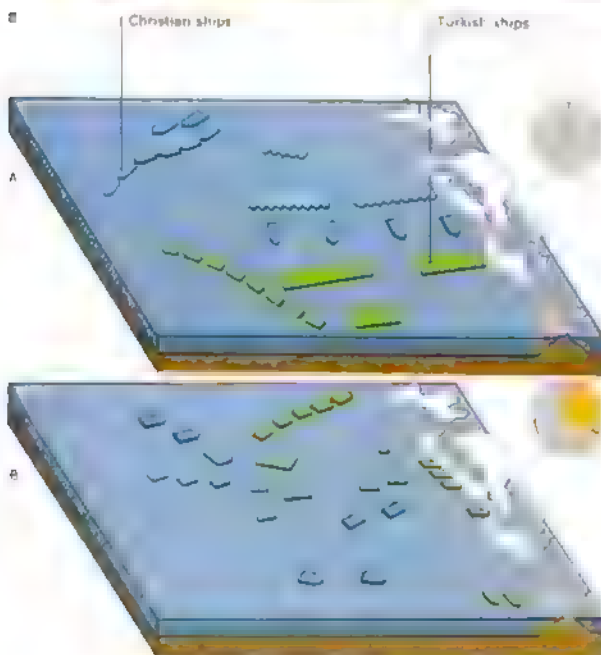
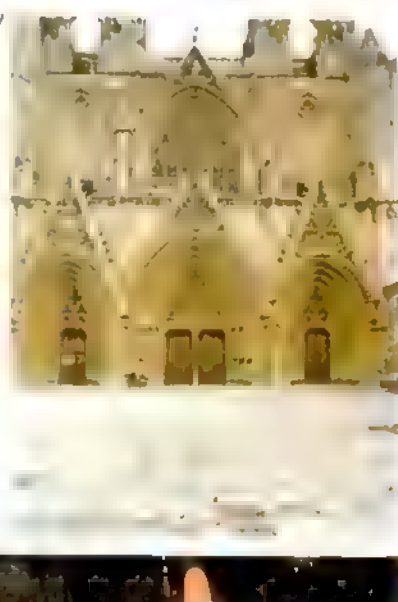


5 Suleiman I, called The Magnificent brought the empire to the height of its power. Here his workmen are restoring a castle in Egypt – a mark of the extent of his military power and authority.

6 The first siege of Vienna, undertaken by Suleiman the Magnificent in 1529, marked the limit of Ottoman expansion in the west. The Ottoman supply lines were already stretched too far from Istanbul.



7 The Cathedral at Famagusta symbolized the magnificence of Cyprus in the 1500s. Under the Venetians it had become the wealthiest island in the Mediterranean. The Ottoman conquest of the island in 1570 was the main event in the reign of Sultan Solim II, another wise unworthy successor of Suleiman the Magnificent. It marked the beginning of a new phase of hostilities between Christians in the west and the Turks. The war was fought out largely at sea and culminated a year later (1571) in the Battle of Lepanto.



8 The Battle of Lepanto, between the allies (Spain, Venice and the papacy) and the combined Ottoman fleet was fought off the Greek coast. At the start (A), both navies were grouped in two advance lines and one rearguard. The Christians had both galleasses (dark blue) and galleys (light blue). Four hours later (B) the Turkish fleet lay scattered with most of its ships beached, sunk (white outlines) or boarded (white barred vessels between blue).

9 A miniature painting of Suleiman from the mid-1500s shows the borrowing of foreign styles typical of Turkish art. The Turks adapted the skills of their subjects and there is little original Turkish art except for carpets and other textiles.



The world Europe set out to explore

At the end of the fifteenth century Vasco da Gama (c. 1469–1524) sailed round the Cape of Good Hope to India and Christopher Columbus (1451–1506) stumbled upon the Americas. So began an age of discovery in which Europeans were to navigate the seven seas, make their landfall in most of the inhabited regions of the globe and come to think of the world as a whole. The voyages east, however, were simply new ways of going to places already, if imperfectly, known.

Alexander the Great had marched the Greeks through Persia into India, Rome had bought Asia's silks and peppers and had bequeathed Ptolemy's geography to medieval Europe. Byzantium had long been a bridge between Europe and Asia. But the hostile crescent of Islam had hemmed in Christian Europe, until the extensive conquests of Genghis Khan (1167–1227) [4] gave it a brief respite from Islamic pressure.

The achievement of Marco Polo

The Mongol empires, stretching from Russia to China, straddled the land routes between Europe and Asia and allowed the two conti-

nents to trade directly with each other. In 1271 Marco Polo (1254–1324) travelled via Bokhara to Kublai Khan's court at Peking [2], and in the mid-fourteenth century an Italian handbook for merchants, *la Pratica della Mercatura*, described the 140-day journey from the Black Sea to China [3] and listed no fewer than 388 spices and drugs that could be bought in the markets of Asia. But these tenuous contacts of traders and also missionaries were once again snapped by the hordes of Tamerlane (1336–1405) and the dynasties that emerged out of the wreckage of the Tatar empires. That is why discovering a route to the East by sea was so important for European commerce and trade.

The importance of China

At the end of the long journey east lay China where the native Ming dynasty (1368–1644) expelled the foreign Mongols, cultivated its own empire, restored its economy and refined its bureaucracy. Threatened by offshore rivals and by the scourge of Japanese piracy, the Ming withdrew into partial isolation, broke off relations with some of

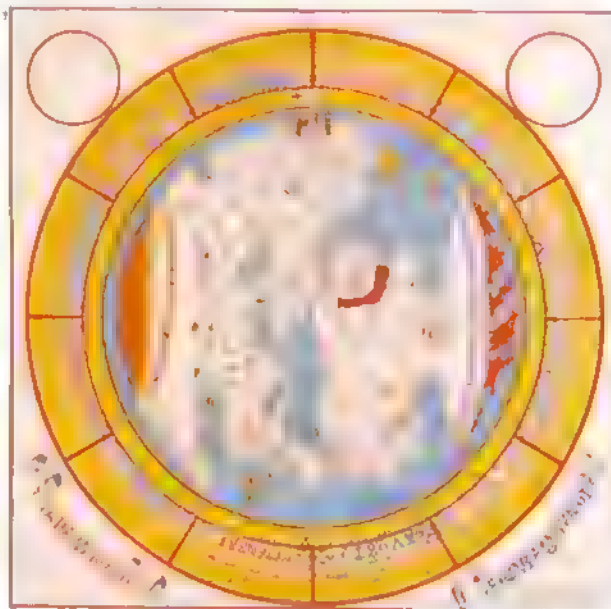
China's old tributaries, forbade its people to travel overseas, threw out foreign traders and prohibited private foreign trade. But the first Ming emperor had established relations with 17 different neighbouring states, and in 1502 more than 150 self-styled rulers from central Asia traded with China under the cloak of tribute relations. The maritime expeditions of Cheng Ho [6] hinted at a vast Chinese potential for seaborne expansion that was never to be realized.

By its self-denying ordinance Ming China did not fully exploit the valuable interport trade of the Indian Ocean, with its hub in the archipelago. This was left to the merchant principalities of the East Indies and to a motley crew of traders – Arabs, Persians and Indians. Ever since the time of the Cholas India's mainland empires, expanding from their bases in Hindustan, were more concerned to defend their northern frontiers and to acquire territory in the south than to probe overseas. Babur, the first of the Moghuls, began his conquest of India soon after Vasco da Gama reached Calicut. But the empire he founded remained land based, and was

CONNECTIONS

See also

1 This Venetian map of 1448 shows how the typical medieval 'wheel' map of the world was beginning to change. The medieval *mappa mundi* was biblically inspired, with Jerusalem at the centre, the terrestrial paradise at the top and systematically disposed continents. By the mid 15th century the conventional medieval map was being influenced by contemporary marine charts and enriched by incorporating some of the information from travellers. It was also modified by the recovery of classical writing about the outside world, in particular the geography of Ptolemy and Fra Mauro, as evidenced by this map.

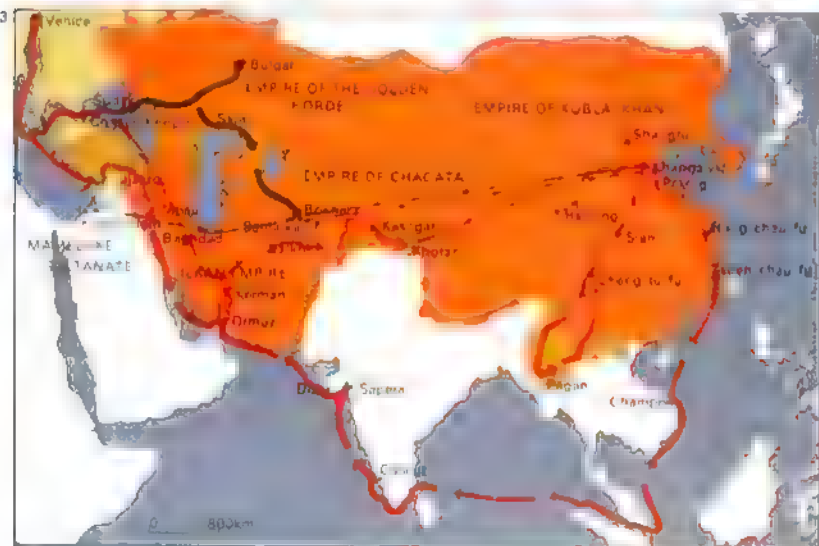


3 In 1290 the Polos Nicolò and Maffeo travelled from the Crimea via Bokhara to Peking. Returning

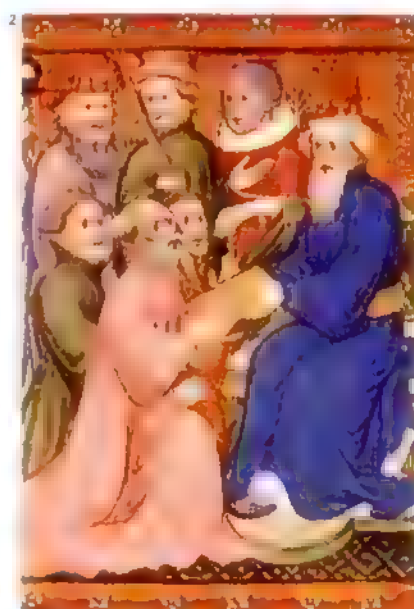
to Europe, they set out once again in 1271 with Marco Polo. His return journey from 1292

1295, was along the Malay Peninsula, Sumatra and India. These journeys revealed how the Pax

Mongolica had helped to connect Europe with Asia and enabled Europeans to learn about the East.



2 Marco Polo travelled to Peking in 1275 and served the Mongols in the East for 17 years. Returning to Venice in 1295, Polo gave Europe its first detailed account of China and its neighbours in *The Description of the World*. It was the most comprehensive account of the East produced before 1550, full of hard details about cities, canals, rivers, ports and industries. A practical administrator and merchant, Polo had little eye for religion and civilization but his accounts are factual and relatively free from the fantasies that formed the staple of contemporary travel literature. He recreated Asia for the European mind.



4 Genghis Khan the Tatar conqueror rode roughshod over the Chinese civilization, selling many people into slavery. The Chinese resented the Khan, and they did not appreciate the links that the conqueror forged for them with the

outside world. For China, the imposition of Mongol rule meant the breaking point in the continuity of its tradition. The Mongols were looked upon as foreign overlords, and were finally expelled by the native Ming dynasty in the 14th century.

never to possess a deep-sea fleet of its own. Europe's deadliest enemies were also its closest neighbours - the Ottoman Turks. By capturing Constantinople in 1453 [5], the Ottomans held the gateway between Europe and Asia, by taking Mameluke Egypt (the Mamelukes were originally Turkish prisoners of Genghis Khan who seized control in 1250) and Syria (1516-17), they severed the European trade route east and wrested much of the profits of the Eastern trade from the Venetians and Genoese.

The Ottomans move into Europe

Perhaps the most fateful decision in modern times was the Ottoman resolve to push westwards into Europe. This took the Ottoman armies through the plains of Hungary to the gates of Vienna and held their navy in the Mediterranean. By establishing their empire throughout the Balkans, the Black Sea region and the Levant, the Ottomans sealed off these areas from European expansion and gave the Iberian powers the incentive and the opportunity to find new outlets, whether by creeping round the African coast to the East

or by making their landfall in America.

In Asia, Europe once again came into contact with great Oriental despotisms, mainland empires, many of which were Muslim, which it did not dare to challenge and which it could not hope to penetrate. In getting to the East by the new sea routes, Europeans merely touched upon the western and eastern edges of Africa - a continent whose northern territories had long been influenced by Islam but whose interior was long to remain unknown to the outside world.

In the New World the story was different. Here the Europeans actually discovered a continent that was out of touch with the rest of the world. There were remote, isolated, civilizations that had wondrous monuments and strange customs, but whose technology lagged far behind that of Europe or Asia. America's discovery by Europe opened her swiftly to the full blast of European influence: conquest and exploitation, disease and religion. Here the result was a clash of two wholly different cultures, which had come into contact with each other for the first time in recorded history.

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Until Marco Polo's return to Venice

Europe learned little new about Asia. In legend it was still a continent of monsters and demons. In the

12th century Christians

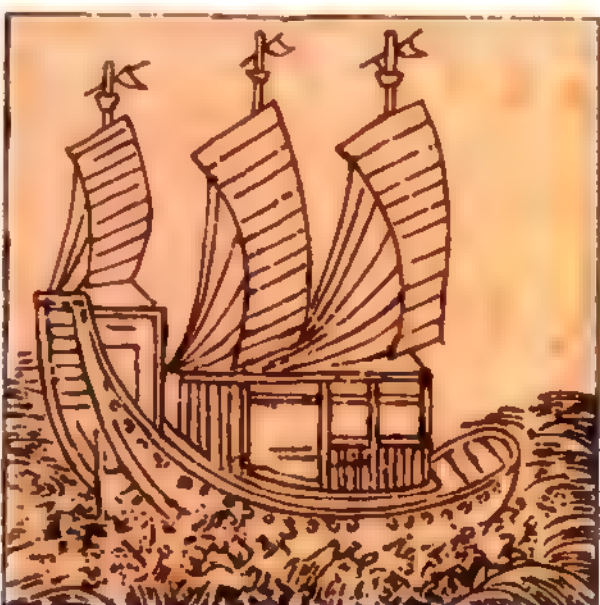
debated whether the dog-headed men of India might be converted, and even as late as the 14th century Western manu-

scripts showed Indians with dog heads, fantasies which the discovery of direct sea routes to the East were at last effectively to dispe-



5 The siege of Constantinople in 1453 vividly illustrates how Europe in the 15th century was contracting, not expanding. The Ottomans had triumphed against the last Crusade from Europe. The capture of Constantinople (today known as Istanbul) meant that the Ottomans were in Europe to stay.

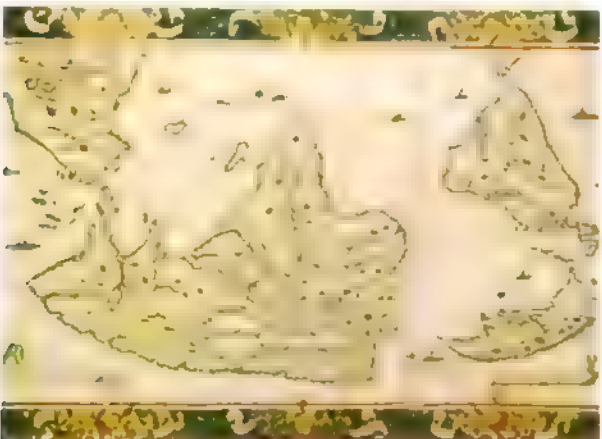
6 Cheng Ho's seven maritime expeditions, beginning in 1405 and visiting over 30 countries, were remarkable feats of seamanship. The largest of his ships was 121m (400ft) long and 54m (180ft) wide with four decks and watertight compartments. The 62 ships of his voyage to India carried 28,000 men.



7 Nicolas Deslens's "upside down" map of the world of 1567 based on lost Portuguese originals shows how radically the European view of the world was changing as exploration continued. Whereas maps in the

Ptolemaic tradition had often been drawn with east at the left and Jerusalem at the centre, this has north at the bottom and as nearly as possible France at the centre. Its accurate description of known

parts of the world reflects the growing precision of navigational techniques, but when describing unknown parts, the land mass to the south of Java, for example - it is still seriously inaccurate.



8 By the end of the 15th century the vessels known as carracks were the largest merchant ships, at the other end of the scale from the small caravels. Portuguese carracks could be

from 600-1,000 tons and were heavily built, with large castles, commonly three masted with square rigging on fore and main and with lateen mizzen. The castle structures became more elabor-

ate, as this 16th century picture shows, and they were more often incorporated into the hull. These were the ships whose size, capacity for goods and men and solid construction made them the

characteristic vessel used by the Portuguese in their Eastern reconnoissances and trade, even though their bulk made them less well suited to carrying out the more detailed tasks of exploration.

Asian empires of the Mongols

The Mongol Empire, at the height of its power in the thirteenth century, was the largest land empire in history. It stretched from the Yellow Sea in the east to the Danube in the west and included areas of present-day Russia, China and Iran.

The origins of the Mongols are obscure. They were traditionally nomadic tribes who lived in felt tents called *yurts*, and followed their herds of horses, cattle, camels and sheep on an annual round of pasturage in the areas that are now Manchuria, Mongolia and Siberia. The numerous, loosely organized and constantly feuding Mongol tribes were first brought together as a unified nation under Genghis Khan (1167-1227) who became ruler of all the Mongols in 1206 [2].

Genghis Khan and the Mongol Empire

Genghis Khan's first move was to reorganize the major tribal groups in Mongolia as well as those on the Siberian borders. He then turned his attention to China. In 1211 he launched an attack on the Ch'in Empire, in northern China, an attack that continued until the whole of China finally came under

Mongol domination in 1279.

But China was not the only target: the hitherto unknown Mongols also raided the west. In 1219-20 Genghis Khan defeated Mohammed Shah of Khwarizm, and as a result acquired Transoxiana and Persia. Two of his generals defeated successively the Georgians, the Kuman-Turks, on the Volga-Don steppe - later to provide the manpower reserve of the Mongol Golden Horde that dominated Russia - and the Russian armies themselves, on the Dnieper. The Mongol armies then withdrew to central Asia.

Genghis Khan's successors

Ogodei (1185-1241), who succeeded to the khanate after the death of Genghis in 1227, resumed the western offensive and Persia, Georgia and Armenia were overrun as far as the Black Sea. At the same time the eastern campaign led to the defeat of the Ch'in in 1234 and pressure against the Sung dynasty in South China increased.

Batu (died 1255), Genghis's grandson, drove north of the Caspian and the Caucasus into Europe, defeating the Bulgars on the

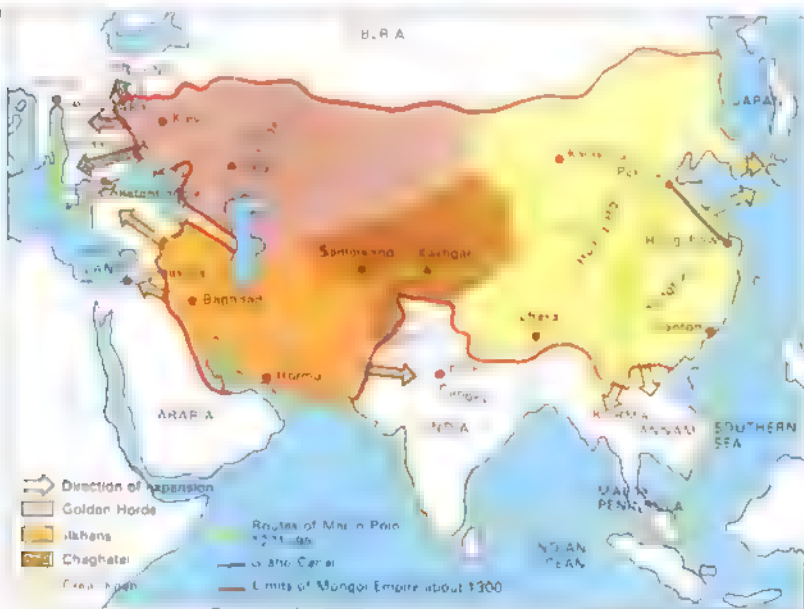
Volga and capturing many cities, including Kiev, before splitting his army into two and initiating attacks on Poland and Hungary. Cracow and Breslau were captured and a German and Polish army defeated at Legnica in 1241. Batu himself devastated the Hungarian army at the Sajó, captured the towns of Pesth and Gran, and then led his forces to the Adriatic. No attempt was made to hold Hungary or Poland, but a Mongol base was established on the lower Volga to supervise the Russians and the Cumans.

Another grandson, Hulagu (1217-65) [6], the founder of the Persian Ilkhan dynasty (the title recognized subordination to the Great Khan), campaigned to the southwest. The Isma'ili sect, the Assassins, lost their great stronghold of Maymundiz in 1256. Baghdad fell in 1258 when the Abbasid caliph was killed. The conquest of Aleppo and Damascus followed, but in 1260 the Mongols met their first defeat, at Ain Jalut, at the hands of the Mamelukes under Baibars (1233-77), whose army had been battle-hardened against the Crusaders.

The Mongol army was commanded in this

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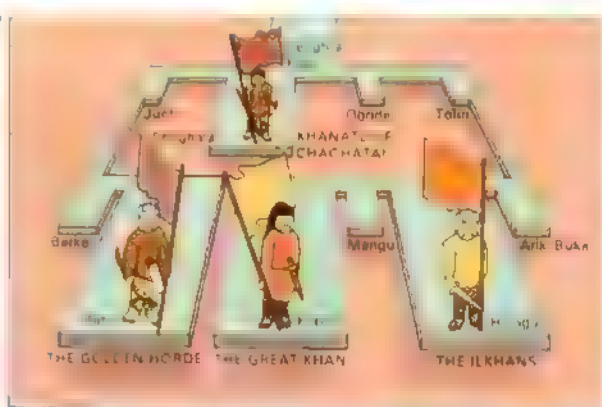
See also



3 Genghis Khan, portrayed here by a Chinese artist, was a politician as well as a warrior. He skilfully used patronage and alliances to further his aims.

4 A Yuan empress (from the dynasty founded by Kublai Khan) wears a medieval Mongolian head dress. Similar head dresses were still worn in this century.

5 Mongol troops are shown attacking a town with the aid of siege engines. These engines, called mangonels, were made by a German in China in 1273.



1 Despite the terror which the Mongols inspired, their domination of large areas of Asia and parts of Europe led to the development of trade routes used by traders of many nations in the 13th

century. The Venetian Marco Polo set out for Peking in 1271. It was more than 20 years before he returned to Europe to describe the wealth and splendour of the Khan's court.

2 Genghis Khan united the Mongol tribes in 1206, under his leadership. After his death in 1227, the growing Mongol Empire was divided into four among his descendants, with Ogodei as chief.



battle by the Christian Kitbogha, which illustrates the wide range of religions accepted by the Mongols. Shamanism, Buddhism, Islam and Nestorian Christianity were all practised, but in general the Mongols themselves were Shamanists. This tolerance explains the presence of various Christian priests at the Mongol court, and it encouraged and enabled Marco Polo (1254–1324) to travel across Asia to China. In fact the Mongol khans appear to have had a genuine intellectual interest in religion and debates between experts of different faiths are reported by observers [8].

Kublai Khan conquers China

In 1260 Kublai (1216–94) became Great Khan, moving his capital from Karakorum to the site of present-day Peking in 1264. From there he conducted the campaigns that led to the annexation of all China, an area where the Mongol terror tactic was not general.

Although the campaign did not finish until 1279, the Yuan dynasty that Kublai founded is generally reckoned to run from the foundation of the new capital until the

last ruler fled before the Ming armies to seek refuge in the Mongol homeland in 1368. But the empire of which Kublai was the last ruler had broken up much earlier, for by 1295 the western Khans had accepted Islam and were no longer willing to submit to the overlordship of a non-Muslim Great Khan.

Nor did all Kublai's campaigns prove successful. In the north he was never able to subdue Kaidu (died 1301), the grandson of Ögödei. To the south Burma surrendered but was not occupied, while in northern Vietnam disease forced a withdrawal. A sea-borne campaign against Java was defeated, as was an attempted invasion of Japan. After Kublai's death there were nine rulers up to 1368. The dissolute rule of the last emperor Togan Timur, saw revolts and chaos develop into open rebellion in 1348 and eventual defeat by the Chinese insurgents.

In the Middle East and in Russia Mongol dynasties continued to rule until 1502 although by that time they were little more than nominally Mongol because their various conquests had diluted the original Mongol groups to a considerable extent.



The horsemen who formed the élite of the Mongol armies

were the key to their military success. They were

trained to use the bow or sword while at full gallop.



6 Hulagu, invaded Iran in 1256, captured Baghdad and later defeated the Assassins, but was himself defeated by the Mamelukes in Syria. This was a turning point in Mongol history.

7 The Gur Emir, the tomb of Tamerlane (1336–1405) at Samarkand, was finished in 1434. This is one of the many magnificent buildings which this Mongol ruler, who was a great patron

of the arts as well as a warrior, had constructed in Turkestan, his favourite region, and elsewhere. With his Tatar supporters he temporarily reunited the empire of Genghis Khan.



8 The prophet Jeremiah is illustrated in Rashid al-Din's *History of the World* (1306). The author, a physician in the court

of Abaga Khan the Mongol ruler of Persia, included biblical themes in his world history – an indication of Mongol tolerance of

alien religions. This illustration also shows Chinese cultural influences, another indication of Mongol absorption of foreign ideas.

The empires of South-East Asia

The lands that lie along the maritime route between the Indian subcontinent and China [1] have been strongly influenced by both of these regions. Except in Vietnam, the major cultural influence has been from India, but for most of the Christian era the kingdoms of South-East Asia have recognized, to a greater or lesser degree, the ultimate political suzerainty of the emperors of China.

The first centuries AD

The involvement of India and China in the affairs of this complex region seems to have been the largely accidental result of a need to find an alternative route between them when the land journey was made difficult by political instability in central Asia. But the various parts of South-East Asia had already achieved considerable technological, economic and political development by the time they came under the influence of their larger neighbours in the first centuries AD.

Lin-l, with its capital near Hue, and Funan in the Mekong Delta, are two of the best known states that existed to the south of China in the early Christian era. Lin-l

became the kingdom of Champa, which dominated central Vietnam and parts of the south until the fourteenth century. Funan grew into a substantial empire that dominated the greater part of the northern and eastern shores of the Gulf of Siam and their hinterland until the centre of power shifted, in about the middle of the sixth century, to a former vassal state, Chen-la, probably in the vicinity of the Tonle Sap. From this kingdom the Khmer Empire of Cambodia [Key] developed from the beginning of the ninth century onwards. To the west, in the seventh century, lay Dvaravati, near present-day Bangkok, and farther west again, in Burma, lay the Pyu kingdom of Shrikshetra, with its capital at Prome.

Southwards in the Indonesian archipelago, and on the Malaysian peninsula (parts of which seem to have been dominated by Funan), a number of small kingdoms flourished, due in part at least to the development of trading routes between China and the West. These routes brought Buddhist pilgrims through the region and traders whose posts seem to have attracted teachers of Hin-

duism as well. These religions, originating in India, became the state faiths of the kingdoms of South-East Asia, a role that Buddhism has retained, but Hinduism [5, 7] except in Bali, has almost disappeared.

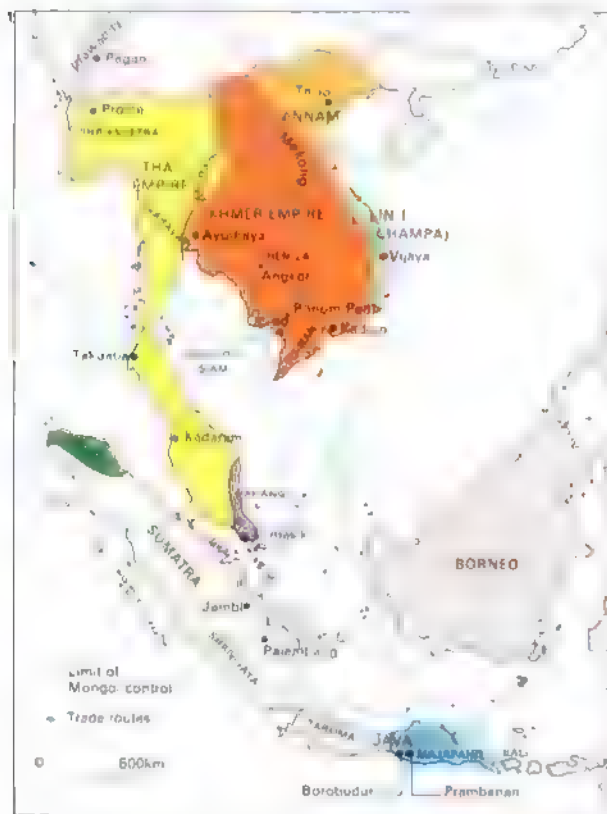
Buddhist and Hindu influences

By about the seventh century AD a Chinese Buddhist traveller, I-ching, was advising his fellows to spend some time in Sumatra studying Sanskrit and Buddhism before going on to India. He himself spent almost a decade there translating Buddhist texts into Chinese. The rise of this centre in western Indonesia, the beginnings of a state known as Shrivijaya which exercised commercial control in western South-East Asia for several centuries, followed a shift of power from the coast to the interior on the mainland. Meanwhile, elsewhere in the archipelago, in west Java (Taruma) and Borneo, Indian influences began to be detectable and a major dynasty, the Shailendras, Lords of the Mountain, who may have had links with Funan, came to power in central Java. There, from about the eighth to the ninth centuries,

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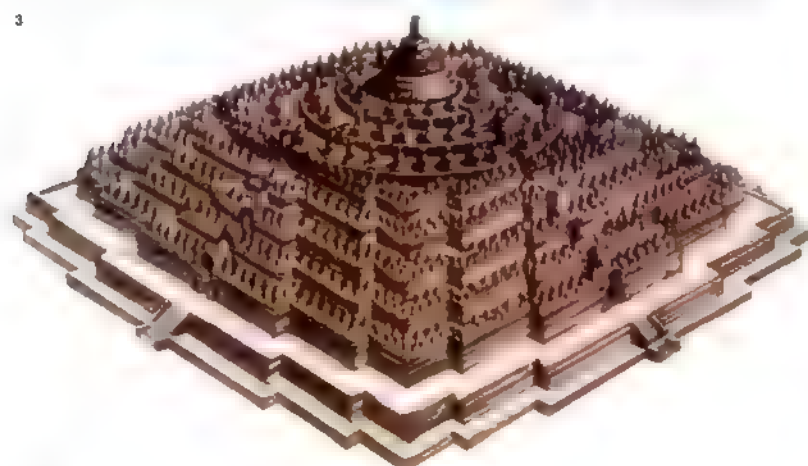
See also

Monks



1 The geographic position of South East Asia, lying between India and China at the centre of a monsoon system that facilitated sailing to and from both these countries explains much of its cultural development and historical importance. The thriving commercial trade carried inland along the great river systems also brought a diversity of religious, political and cultural influences to the area.

2 Chandi Plasasan in central Java is a large Buddhist complex built in about the mid 9th century. Two apparently symmetrical groups have central shrines framed by rectangles of temples. Each main building is two-storied and houses a pantheon of Buddhas and Bodhisattvas. Inscriptions say that the images 'shine forth the Doctrine and the win-dows were evidently arranged to create a radiant effect'.



3 Borobudur one of the world's greatest Buddhist shrines, was built in about the middle of the 9th century to a unique plan involving colossal resources - 570,000 cubic metres (two million cubic feet) of stone were moved

from a river bed dressed, positioned and carved with countless spouts, urns and other embellishments. The walls are covered with reliefs relating to Buddhist doctrine and there are altogether 504 shrines with seated Buddhas

4 Chandi Mendut a small temple of the Borobudur group probably served as an antechapel. This relief, on the north wall of the porch shows Kuvera, god of wealth, often associated with the merchant class who supported Buddhism.

Buddhism [2] appears to have flourished, its culmination being seen in the shrine of Borobudur [3, 4]. This, with its miles of reliefs expounding the faith, is one of the world's greatest religious monuments.

Hinduism was not neglected, however, and it was perhaps from this setting that Jayavarman II (c. 770-850), "returning from Java" as an inscription says, established in Cambodia the kingdom that dominated the central mainland from about the ninth to the fourteenth centuries. Hinduism, centred upon a lingam (phallic) cult located in a temple at the centre of the capital, was the state religion. The temples were of ever-increasing complexity, culminating in the magnificent structure of Angkor Wat [8] and the enigmatic Bayon in the centre of Angkor Thom. The economic strain of these ostentatious building programmes possibly contributed to the fall of the Khmer Empire under attacks from both the Thai, newly established as a power to the west, and the Vietnamese on the eastern borders.

Eastern Java, also perhaps for socio-economic reasons, saw the rise of the

kingdom of Majapahit - a state whose maritime power enabled her to repel a Chinese fleet in 1293. Its influence extended as far west as central Sumatra and its blending of Hinduism and Buddhism was the culmination of a trend that can be detected in central Java as early as 782. The end of this kingdom seems to have been linked with the coming of Islam which, already established in northern Sumatra at the time of Marco Polo's visit in 1291, became important on the coast of Java a century or so later, although Majapahit's fall is usually dated to 1480.

Developments on the mainland

On the mainland, the Mongols, although unsuccessful in Java, had intervened with limited results in Vietnam. In Burma, the kingdom centred upon Pagan on the Irrawaddy, where some thousands of temples built over a period of two centuries testify to the power of Buddhism. It fell to the Mongols in 1287. At about the same time Rama Khamhaeng consolidated Thai power in what had been the western Khmer Empire to found the present state of Thailand.

KEY



Jayavarman VII (c. 1120-1215) became king of Cambodia in 1181 after driving out Cham invaders. Following his father Suryavarman II, who built Angkor Wat, he embarked on an enormous building programme. In addition to temples and associated buildings he created hospitals and rest houses for travellers and improved roads, with many stone bridges still in use today. Most of his predecessors were Hindu, identifying themselves with Hindu gods. Jayavarman was a Buddhist who seems to have had a special relationship with the god Lokeshvara (shown here), whose carved head dominates the towers and gateways of his buildings.



5 A terracotta head from southern Thailand depicts a manifestation of Shiva's wrath - a creature that ate its own body to satisfy its hunger after the demon it was born to eat had been pardoned.

6 The Lake Pavilion at the Summer Palace, Bangkok, with its elaborate carving and gilding, is a reminder that bamboo and wood have been used as the materials for most buildings in South East Asia during the past millennium, as they still are today. Even shrines and their images were often wooden, so that much of the past has been lost from the archaeological record.



7 Garuda, vehicle of the god Vishnu, was a magic bird and enemy of snakes. In South East Asia it became a divinity in its own right and was the centre of salvationist cults of various kinds.



8 Angkor Wat, the creation of Suryavarman II (king of Cambodia c. 1113 to c. 1150), was the ritual centre of his kingdom where the royal lingam (phallus) emblem of power, was housed. The outer cloister, 1,380 x 1,150m (4,529

x 3,733ft), enclosed a complex of buildings, the main group arranged as a square of four at the corners and one in the centre. All were covered in exquisite low relief with divine dancers, plants, birds and animals. The many

towers housed images. The walls of the central group were covered with reliefs depicting Hindu stories and battle scenes. In two, the king was shown. It was to be his shrine after death when he became identified with the god Vishnu.

African empires 500–1500

The most obvious sign of Africa's emergence from the primitive status of a "prehistorical continent" was the growth of political states [1]. The 1,000 years from 500 to 1500 saw the gradual emergence and then the great flowering of the black kingdoms that created such a rich and varied culture. By the beginning of the sixteenth century, much of the continent had entered this stage, evolving organized political societies with rulers, a soldiery under their direct command, and an administrative class. These were economically supported by the tribute that could be exacted from the mainly agricultural peoples considered to be either directly or indirectly the subjects of these states. Rulers often also controlled important trade routes.

The first black empires

The most ancient black African states were the empires of Kush/Meroë in the middle Nile valley (c 800 BC–c AD 400) and Axum in northeastern Ethiopia (first to fifth centuries). These were shaped by the influence of Egypt and south Arabia respectively and, although they had considerable effects upon

later developments farther south, were rather special cases. These empires apart, the main African empires were in the Sudanic belt, that is in the area to the south of the Sahara and north of the tropical forests.

The earliest of these Sudanese empires was Ghana, which was founded by the West African Soninke people. The first reference to Ghana comes from a North African writer in AD 773, and by 800 it had emerged as a powerful trading state, ruling the whole of the country between the Senegal and upper Niger rivers. The prosperity of Ghana was based largely upon its control of the gold trade. The gold fields of West Africa lay well to the south and Ghanaian traders obtained the precious metal by a strange process known as dumb barter in which the gold producers never met these traders face to face. The Ghanaians then sold the gold to North African merchants, who gathered in the southernmost oases. These oasis communities on the edge of the Sudanic belt served as the termini for the caravans that braved the routes across the Sahara [3].

Sometimes the fierce Berber nomads who

usually guided these caravans turned upon the settled trading empires. In the middle of the eleventh century, the Almoravids, a Berber confederation, led a Muslim holy war out of the desert to the north and to the south. In 1054 they invaded Morocco (later conquering southern Spain) and in 1076–7 seized the capital of Ghana.

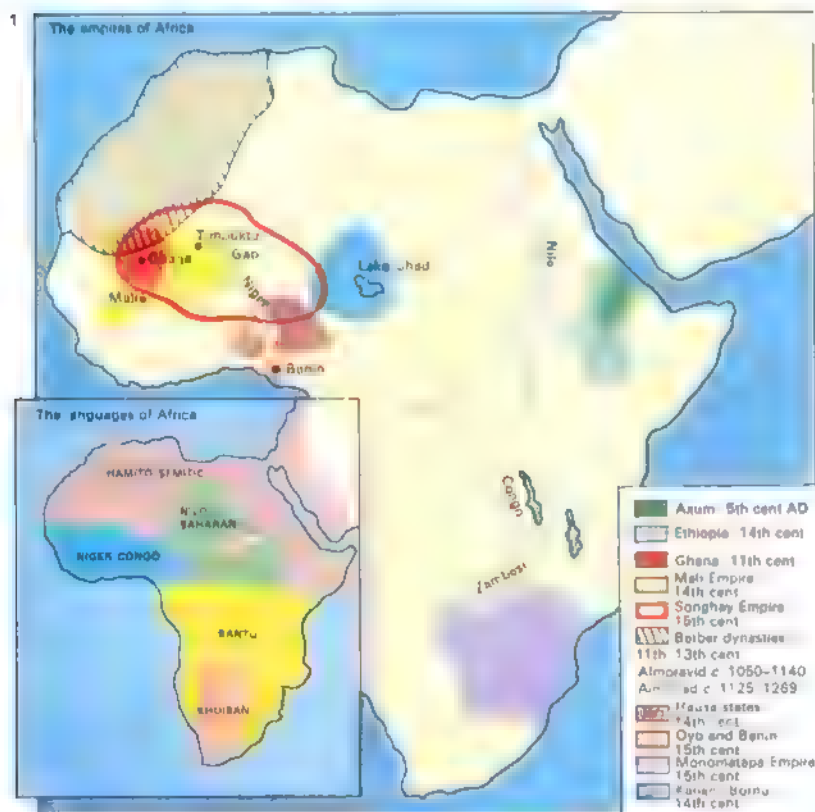
The growth of the desert empires

Although the Ghanaian Empire fell, many smaller kingdoms survived and one of these grew into the spectacular empire of Mali [2]. Three great kings (who ruled between c 1230 and c 1340), Sundiata, Mansa Uli and Mansa Musa, so expanded Mali that it became one of the greatest empires in the world. It covered much of the western Sudan, and included the famous city of Timbuktu. The rulers had become Muslim (the religion travelled across the desert trading routes), and in 1324 Mansa Musa made the pilgrimage to Mecca, taking so much gold that he upset the Cairo money market en route. The successor state to Mali was Songhay, which had its centre on the middle Niger. The

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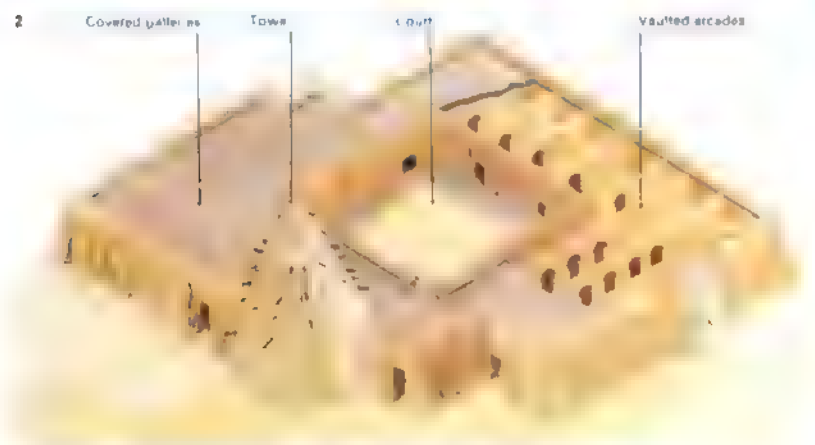
Africa before 500 AD



1 The population of sub-Saharan Africa is mostly Negroid, although the Khoisan, in the south, are smaller peoples of different origins. The inhabitants of Africa north of the Sahara are paler

often Caucasoid in origin. Three main features distinguished the development of African languages: the long evolution of western African languages; the fairly rapid spread, after about 2000 BC, of an

offshoot of them, the Bantu languages, over all of Africa south of the Equator, and the imposition of Arabic on the much more ancient Semitic languages, such as Berber, still spoken in northern Africa.



2 The great mosque at Timbuktu was designed in the 14th century by As-Saheli, one of the Egyptians brought back to Mali by the emperor Mansa Musa after his pilgrimage to Mecca in 1324. Timbuktu grew to be an important centre of commerce, religion and learning, producing many fine Muslim scholars.

3 Trade routes across the Sahara had developed in Greek and Roman times, but first came into their own with the introduction of the camel to Africa around AD 100 and the growth of the Islamic states six centuries later. This 13th-century picture shows a Muslim merchant of the kind that engaged in

this ancient and hazardous commerce. He would have traded in West African gold, ivory, kola nuts, slaves and leather wares in exchange for salt, weapons and luxury goods. Control of the southern end of these trade routes made rich the great Sudanic states of Ghana, Mali, Songhay, the Hausa states and Bornu.

great rulers of Songhay at the height of its power were Sonni Ali (reigned 1464-92) and Askia the Great (reigned 1493-1528).

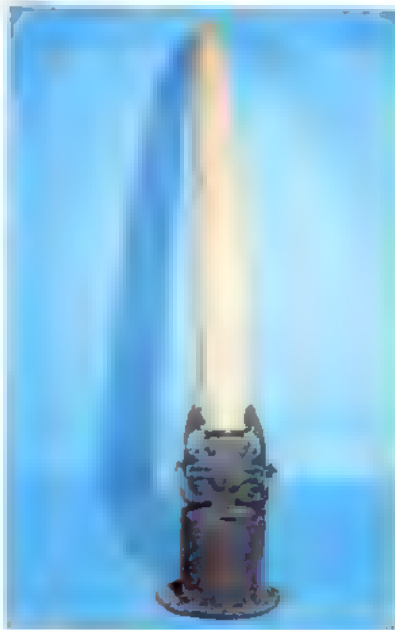
To the east of Songhay were the Hausa states, such as Kano and Katsina, whose origins are traditionally traced back to the eleventh century. By the fourteenth century they had become the domains of powerful kings and prosperous merchants, centres of population, crafts and trade. They were famous for their leather work, which was exported north across the desert. Europeans obtained it in North Africa, and knew it as Moroccan leather. In the central Sudan, on either side of Lake Chad, was the great state of Kanem-Bornu. From as early as the eleventh century its rulers had been Muslims. Kanem-Bornu was one of the oldest and largest African states, retaining its independent existence (although with changes of ruling dynasty) until it was overthrown by the European invaders at the end of the nineteenth century. In the mountains at the eastern end of the Sudanic belt, the Christian empire of Ethiopia [6] became the successor of ancient Axum.

In the woodland and forest areas to the south of the Sudan, kingdoms made a somewhat later appearance [4], but many, including Benin and the Oyo empires of Yorubaland (both of which produced some of the world's great sculptures, were in existence before the coming of the first Europeans in the fifteenth century).

The kingdoms of the Bantu nations

In other parts of Africa, especially in the vast regions south of the Equator over which the Bantu language family had spread rapidly during a few thousand years, states were beginning to be established. A cluster of kingdoms came into existence between the great lakes of East Africa, including Ruanda and Buganda. Another group, the Luba-Lunda kingdoms, grew up south of the Congo (Zaire) forests, and the Kongo kingdom also emerged south of the river estuary that in colonial times bore its name. Much farther to the south were Great Zimbabwe and the empire of Monomotapa [7], on the Zimbabwe/Rhodesia plateau, which traded gold to the Muslims on the East African coast.

KEY



This bronze head with ivory headdress portrays an Oba (King of Benin). The splendour of the great African states was epitomized in the persons of their rulers. The headdress is carved with pictures showing the power of the Oba, which was in the case of most African rulers, circumscribed, they were seldom absolute monarchs being regarded instead as fathers of their people and personally responsible for their welfare. Many African kings were considered to be divine - their function in the world being to mediate between man and the gods. This high concept of leadership did not of course prevent corruption in ambitious rulers.

4 Powerful kingdoms

had grown up in the forest regions of West Africa by the 1400s and were in trading contact with the older Sudanic states to the north. The former had a rich and ancient artistic tradition especially in sculpture. Its terracotta and bronze heads and Benin bronzes have achieved world renown. This detail of a bronze head from Benin lacks the finesse of very early Benin workmanship but, although heavier, still exhibits considerable skill.



5 Knowledge of iron technology for producing tools and weapons was important in the history of African cultures and political systems, contributing to the ascendancy of many kingdoms that later became great empires. The spread of iron working occurred over West Africa before the end of the first millennium BC and is linked south of the Equator with the rapid expansion of the Bantu. This picture shows the successive processes of smelting, forging and trading.



6 Cross motif on roof Dome over sanctuary



6 This church at Lalibela in Ethiopia was one of several hewn out of solid rock during the 13th century. The Middle Ages were a time of great church building and of general revival and expansion for this ancient Christian empire.

7 The Great Enclosure at Zimbabwe was built mainly in the 14th and 15th centuries on a site used for ritual purposes since c. AD 1000. The plateau area of Zimbabwe the modern Rhodesia supplied gold to Arab traders at Sofala, a

coastal outpost of the rich trading city of Kilwa in East Africa. To the north of Great Zimbabwe the Monomotapa kingdom was formed probably in the 15th century, and by 1500 the Portuguese were supplanting the Arab trading links.



Mesoamerica AD 300–1521

During the greater part of the first 1,500 years after the birth of Christ there was a definable "Mesoamerican" civilization. This term was coined by the scholar Paul Kirchhoff in 1943 to describe the very similar cultures that occupied what are now southern Mexico, Belize, Guatemala, Honduras and El Salvador, extending eastwards through Nicaragua into Costa Rica between AD 1000 and 1500. These cultures shared temple-pyramids as religious centres, the sacred ball game called *pok-ta-pok* by the Maya and *tlachtli* by the Aztec; a pantheon of deities including sun, wind and rain gods, and in the latter part of the period, especially, an iconography with a grim emphasis on death.

Classic and Preclassic cultures

Many of these features had first appeared in the Preclassic cultures, and in the succeeding Postclassic period (from AD 900 to the Spanish Conquest in 1519) they reached their most complex form and widest distribution.

The first of the Classic cultures to attain great importance was that of Teotihuacán, based on the great city of that name in the

Valley of Mexico. From AD 300–600 the city was at its maximum size, estimated to have contained about 200,000 people.

One of the surrounding cultures was that of the Maya. These people occupied the Yucatán Peninsula and the adjacent highlands of Guatemala and their area can be divided into three contrasting regions: the southern, consisting of the volcanic highlands and the short steep slope down to the Pacific shore; the northern, the arid scrub plateau of northern Yucatán; and the central, the jungle-filled basins of the Usumacinta, Peten and Hondo rivers. It was in this central area, that Classic Maya civilization emerged and flourished.

The appearance of this civilization is defined by the erection of stone stelae (upright slabs) with inscriptions in the complex calendar known as the Long Count which combined three different calendars in one, by the building of massive stone temples and other public buildings in civic and religious complexes normally described as "ceremonial centres", and by beautifully decorated polychrome pottery in new forms.

Oaxaca, a highland valley in southern Mexico, has one of the longest histories in Mesoamerica. The apogee of the culture of the Zapotec Indians who lived there came between AD 300 and 600 and was focused on the great hilltop city and ceremonial centre of Monte Albán [3].

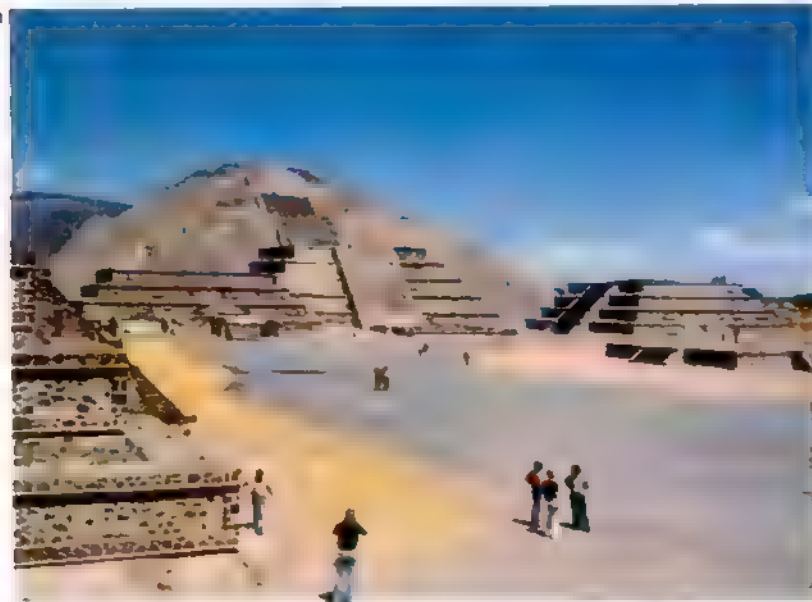
The site has one enormous plaza laid out by levelling the hilltop, lined on all four sides by large buildings approached by broad sweeps of steps. The working of precious stones and metals was one of the most notable characteristics of the Zapotec and of their successors as rulers of Oaxaca, the Mixtec. After Classic Monte Albán was abandoned in the seventh century, some of the tombs were re-used by the Mixtec nobility [7]. Mixtec expertise also extended to architecture and their capital at Mitla [6] has walls decorated with long, repetitive mosaics of thousands of rectangular pieces of stone.

The Gulf Coast

No such spectacular manifestation of architectural brilliance existed along the Gulf Coast, the home of the Olmec. But the cul-

CONNECTIONS

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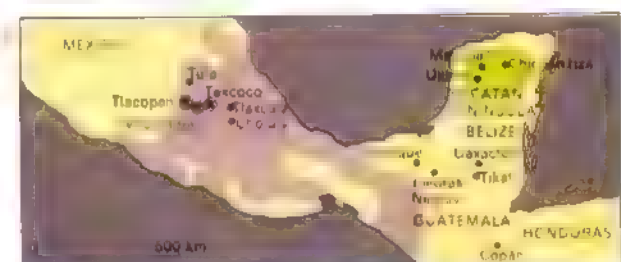
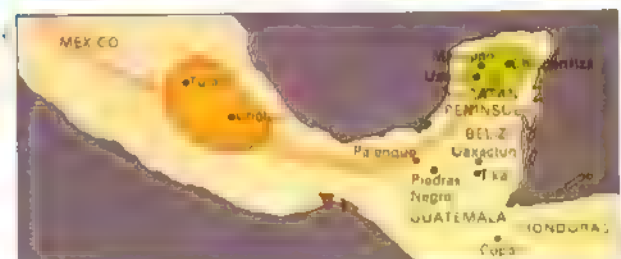


1 The Pyramid of the Moon at Teotihuacán is one of two massive structures that dominate the heart of this great city, the first major planned settlement in Mesoamerica. It flour-

ished from about 100 BC until AD 700 in a small valley branching off from the Valley of Mexico. The pyramid and the great plaza in front close the northern end of the Street of the Dead.

2 There were three stages in the prehistory of Mesoamerica. [A] The cities of Teotihuacán and Cholula dominated highland Mexico (AD 500). [B] Toltec influence from Tula reached Chi-

chen Itzá in the Maya lowlands. The Maya civilization began to collapse in about AD 1000. [C] The Aztecs ruled the highlands, and the Yucatán Maya sites were eventually abandoned (AD 1500).



3 The Great Plaza forms the core of the main Zapotec ceremonial centre of Monte Albán, on the hills overlooking the Valley of Oaxaca. The building in the foreground, Mound J, lies on a different orientation from the rest of the site and has been identified as an astronomical observatory; it is also adorned with carved panels depicting the towns conquered by the lords of Monte Albán. A large population lived nearby.



- A**
 - Maya Empire c. 300–830
 - Maya Empire by 960
 - Teotihuacán c. 300
 - Toltec by 960
- B**
 - Maya Empire 960–1200
 - Toltec expansion 10th–12th centuries
 - Aztec migration 12th century
- C**
 - Maya Empire 1200–c. 1450
 - Aztec Empire by 1519
 - After city abandoned by 14th century

tures of Veracruz, and to the north that of the Huasteca, had their own distinctive characteristics. Veracruz sculpture was marked by panels filled with complex designs, many of them concerned with sacrifice, the ball game, or both. The best-known site is El Tajin (Key), where five ball-courts have been uncovered. These panels are close in conception to those on the great ball-court of Chichén Itzá in Yucatán.

Chichén Itzá is a Maya site in origin. Its most spectacular ruins mark the occupation of Chichén and the domination of northern Yucatán by the Toltec, a warrior people from highland Mexico north of Mexico City. Many of the buildings at Chichén are derived from the architecture of the Toltec capital Tula. The most spectacular are the Castillo, a massive temple-pyramid with steps on all four sides, the Temple of the Warriors, and the *compartido* or skull rack, where the heads of sacrificed victims were displayed [5].

The most impressive feature of the site is natural – the great circular Cenote (well) of Sacrifice, more than 18m (60ft) deep, into which victims were flung to bring rain.

The civilization of the Aztec was in full flower when it was destroyed by the European invaders, and was the only Mesoamerican high culture to be observed and recorded as a living entity.

The cities of the Aztec

The Aztec had taken Teotihuacán [1] and Tula as models in making the central highlands of Mexico their base and like them had extended their way down into the coastal lowlands. Their capital, Tenochtitlán, was sited on islands in Lake Texcoco and had a population estimated at 300,000. It comprised two cities, the second being Huelolco to the north of Tenochtitlán, which acted as the commercial centre. Part of the marketplace and temples of this city have been excavated and restored, whereas the major part was demolished by the Spaniards during the conquest, the centre of the colonial capital was built on its ruins. Most of what remains of Aztec culture consists of gran lava sculpture, delicate turquoise mosaic work, and a number of manuscripts in picture writing, often with marginal notes in European script.

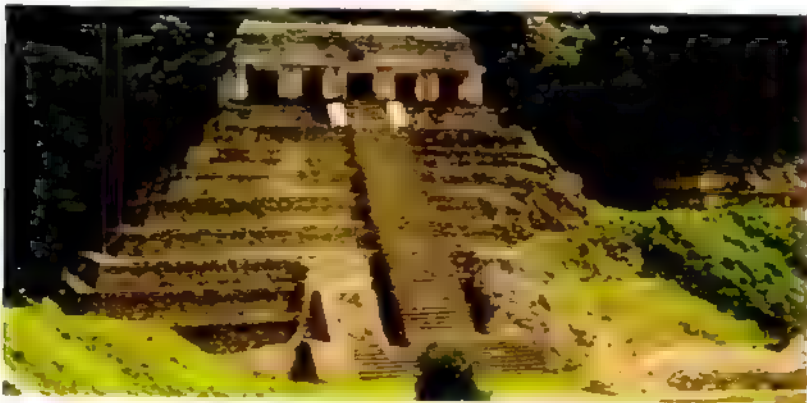
KEY



The Pyramid of the Niches at El Tajin is a large ceremonial centre on the Gulf of Mexico and one of the best known sites of the Classic Veracruz civilization. It flourished through the first millen-

nium AD contemporary with the Maya to the southeast and Teotihuacán to the south. There are 365 niches on the pyramid which have been interpreted as reflecting the days of the solar year in another aspect of

the Mesoamerican obsession with the calendar and the passage of time. El Tajin also had a number of ball-courts decorated with sculptures showing sacrifice, possibly of an earlier date than Chichén Itzá.



5 The Great Ball court at Chichén Itzá was the largest in Mesoamerica. This huge structure, about 83m (270ft) long, was erected by the Toltec conquerors of Yucatán in AD 1000. Stone rings

in each wall were targets for the ball and sculptures along the base of the walls depict the decapitation of a ball player, perhaps the captain of the losing team. A small temple stands at the end

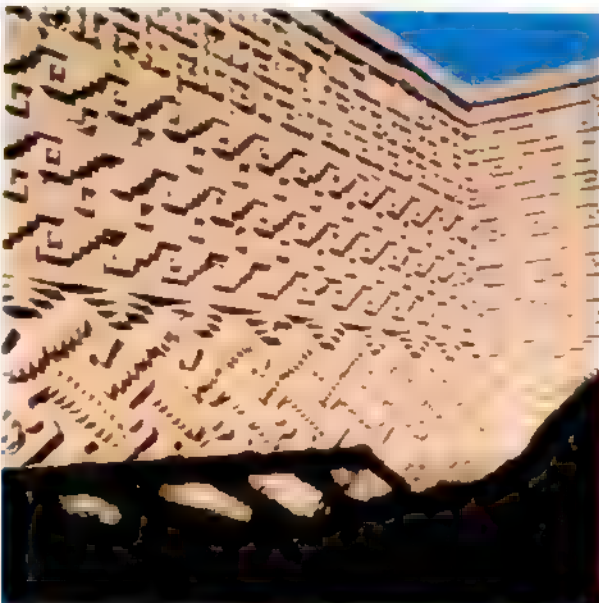
6 A room in the Mixtec palace at Mitla shows the complex stone mosaic decoration based mainly on the step-fret motif and built up of thousands of individually shaped stone blocks. The

rooms, which were roofed in timber, lie round a series of closed courtyards accessible through narrow passages. There is also a pillared hall and tombs that lie below courtyard level.

4 Famous for its stucco sculptures is the temple at the western lowland Maya site of Palenque. This was one of the first Maya sites to be explored in the eighteenth and nineteenth centuries

and work has continued there since. The most spectacular discovery came in 1952 when a stairway was found leading to a buried vault where a great stone sarcophagus contained the ad-

orned body of a ruler. Recent study of the hieroglyphic tablets that give this Temple of the Inscriptions its name identify him as Pacal, first and greatest ruler of Palenque.



7 This head is one of the superb pieces of Mixtec gold work discovered in 1932 in the excavation of Tomb 7 at Monte Albán. This was a Zapotec tomb of an earlier period that had been re-used for the burial of a Mixtec lord. The tomb also contained carved bones, rock crystal, turquoise mosaics and jades. This piece was probably worn on the chest and reveals a complex symbolism. The gold working technique came from South America.



Colombia and Peru 300–1534

In South America one area has always led the rise to civilization – that of the Andes from Lake Titicaca northwards to Panama, and their flanking Pacific and Amazon slopes. There the earliest pottery, the first signs of agriculture and the first settlements and public buildings have been found. From AD 300 onwards, after 1,500 years of increasing momentum, a number of regional cultures of a diverse character arose. They were so strongly regionalized in their art as to suggest separate political units, with strongholds attesting to warfare between them.

The arts of Colombia

In the far north of the South American continent in present-day Colombia, a gold-working tradition of great technical competence and artistic originality emerged [7]. Pendants and nose ornaments of sheet gold with added detail commonly survive, but there are also magnificent gold vessels for holding the drug coca and unique items such as the model raft with a god and his attendants in the Bogotá Museo del Oro. Techniques extended from the simple hammering of

sheet metal to granulation, lost-wax casting and the creation of a gilt surface on a gold-copper alloy by removing the copper with acids from plants.

In southern Colombia the monumental art of San Agustín [1] flourished. The mounds in the area contain stone megalithic chambers, apparently both tombs and shrines, entered by stone tunnels decorated with painted designs. Huge blocks of the volcanic rock andesite were worked into box-like sarcophagi, and shafts of rock turned into menacing statues of warriors and demons. Some of them were double figures, with an animal alter ego looming over the man's head; others represented birds of prey wrestling with serpents. In the nearby Tierradentro region there are rock-cut tombs fashioned with domed roofs and equipped with stepped entrance shafts.

At the time of the Spanish Conquest, Colombia was occupied by large populations living in defended and palisaded settlements. Religion centred on sun-worship and the economy was based on potatoes and maize and trade in salt, gold and emeralds.

The principal centre in northern Peru was the basin of the River Moche, the seat of Mochica, Chimu, Inca and Spanish colonial rulers. Moche civilization dates from about AD 200 to about 700 and the resources its rulers could command are demonstrated by the colossal Temple of the Sun [2], a terraced pyramid 228m by 136m (741ft by 442ft) and 41m (133ft) high, made of mud adobe bricks, and the nearby Temple of the Moon, a palace complex adorned with wall paintings, as well as vast irrigation canals cutting across the desert. Some Moche cemeteries have been properly excavated, many others looted. The most notable furnishings are the stirrup-spouted jars [4] some with painted scenes of warfare, hunting and daily life, others modelled into three-dimensional portrait heads.

Palaces for life and death

From about AD 1000 onwards, the Moche valley held the capital of the kingdom of Chimor, the great city of Chan Chan, which covers more than 15.5 square kilometres (6 square miles) [8, 9]. The centre of the city

CONNECTIONS

See also

1 Enigmatic and massive carvings are scattered on the hills round the present town of San Agustín in southern Colombia. Many depict men with spirit alter egos in the form of animals sitting on their heads and others combine human and feline features, with long fangs. There are megalithic chambers – possibly tombs which are not unlike those of prehistoric Europe with rock-cut basins and carved boulders.



2 Millions of mud bricks were used to build the Temple of the Sun (or Sun Pyramid) and the

neighbouring Temple of the Moon at Moche, on the north coast of Peru. The Temple of the Sun

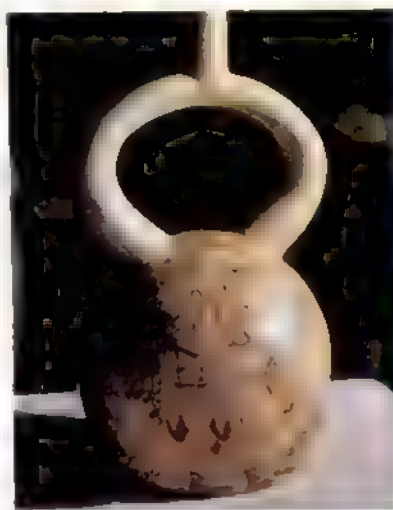
formed the ritual heart of the Mochica state during the first thousand years AD. Both places have suffered

greatly from erosion and looting and the original form of the Sun Pyramid is now hard to discern.



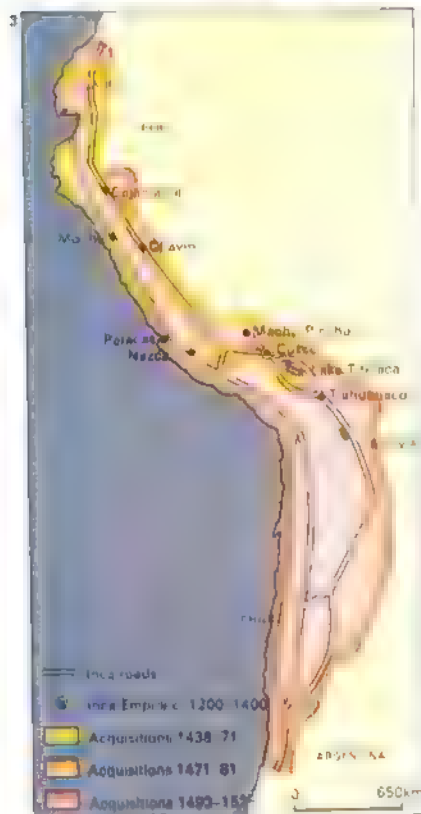
3 The Inca Empire at the height of its power reached from northern Ecuador to the centre of Chile, a distance of more than 3,200 km (2,000 miles). The capital was at Cuzco, the homeland of the conquering Inca nation. From there the Inca himself was linked to the distant parts of his empire by a network of roads and messengers in foot relays.

4 Stirrup-spouted pottery vessels were characteristic of the Mochica period in the first thousand years AD. These vessels were made by specialist potters. One type of vessel took the form of portrait heads, while another (an example of which is shown here) had plain, smooth bodies with painted designs. These often took the form of scenes from Mochica life and warriors in action. The spout shape changed subtly as centuries passed.



5 Nazca potters, renowned for the strong blocks of colour that give their work a cartoon-like effect,

made this lifelike figure of a drummer. Nazca culture flourished in Peru at the same time as Mochica in the north.



consists of ten basically similar walled enclosures, each with a maze of rooms and open courtyards and once rich but now looted tombs. It has been suggested that these were the successive palaces of the Chimú rulers, the new king building a new compound while his predecessor's was maintained in perpetuity as a funerary shrine. The tombs are known to have contained gold and silver vessels and jewellery, pottery and textiles.

On the central coast of Peru the "Lima style" of pottery suggests a state similar to Moche with ceremonial centres such as Aramburu, near present-day Lima. But the most spectacular pottery style was undoubtedly that of Nazca on the south coast, with polychrome vessels [5], often in four or five colours, and a dominant motif of a cat demon.

The most influential culture in southern Peru at that time, however, was based on Tiahuanaco, south of Lake Titicaca. Vast areas of ridged fields have been identified along the lake, indicating a large agricultural potential and the labour to exploit it. Tiahuanaco is noted for its monolithic stone

carving, including the famous Gate of the Sun [6], which lies on one side of a large enclosure, and tall column statues in a stiff but detailed relief style. Tiahuanaco was preceded in the Andes by Pucará as a cultural centre and passed on some of its features to Huari, north of the lake.

Rise and fall of the Incas

Inca grandeur lasted for less than a century, from 1476 to 1534. Inca expansion began under the ruler Pachacuti Inca Yupanqui (reigned 1438–71) and continued under his successor Topa Inca. At its peak it reached from Ecuador in the north, into what are now Chile, Bolivia and Argentina, running along the cordilleras of the Andes and the coast for more than 3,200km (2,000 miles) [3], which left the Inca military over-extended. Much is known of Inca social and political organization – the system of recording information on knotted string *quipus* [10], the professional army, the communications by relays of runners, and the supreme authority of the Inca himself – the source of strength and ultimately the downfall of the empire.

KEY



Inca stone walls in the Peruvian Andes were constructed with quite remarkable skill, the hard stone blocks fitting closely together even though their outlines are irregular. One block in a Cuzco street has 12 angles, but such intricacy is not unusual. In Cuzco itself many Inca structures survive, including part of the Temple of the Sun. It now forms a section of the Dominican monastery. On the hills above Cuzco the great fortress of Sacsayhuaman presents its multiple ramparts to an enemy. Similar stonework is known at the mountain-top city of Machu Picchu and a version was used for agricultural terracing.



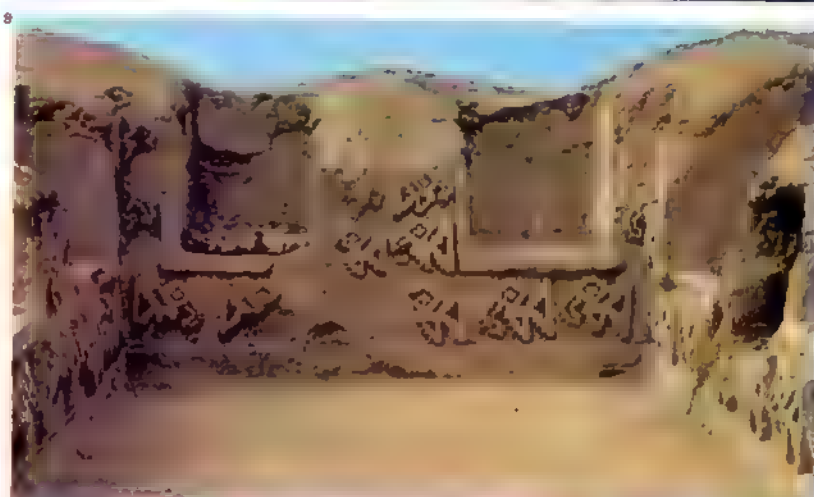
5 A restored panel of decoration in adobe – mud brick – forms part of the outlying temple of El Dragón at the site of Chan Chan, the ancient city

north of Trujillo in the Moche Valley of northern Peru. Moche was an earlier focus of civilization in this valley, as the colonial and modern

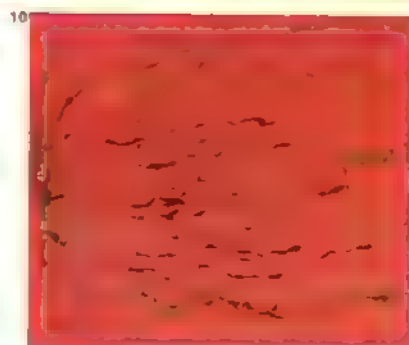
city of Trujillo was after Chan Chan. The site consists of a series of great walled enclosures, altogether covering some 28 sq km (11 square miles).

6 The Gate of the Sun, Tiahuanaco, Bolivia, is carved from a single block of stone and formed part of a great ceremonial enclosure. It is adorned with low-relief carving.

7 The art of gold ornamentation was highly developed in South America. The main centres of innovation were in Colombia and Ecuador, spreading northwards from there into Mexico.



9 Moulded adobe relief decorates the interior of a room at Chan Chan. The friezes are repetitive and consist of birds, fish or abstract designs. The rooms have niches in the walls and some have a U-shaped structure called an *audrancia*, which is thought to have been the seat of a clerk, who checked goods in and out.



10 A quipu, a series of knotted cords, was used by the Inca as a counting and memory device. The knots were of different colours to denote different kinds of numerical information and are an eloquent testimony to the bureaucratic structure of the Inca Empire. For recording the constant payments of incoming tribute they were indispensable.

The age of exploration

The later fifteenth and early sixteenth centuries make up one of the most momentous periods in the history of Europe. In 1492 Christopher Columbus (1451–1506) sailed west across the Sea of Darkness and discovered the Americas. In 1497 Vasco da Gama (c. 1469–1525) embarked from Lisbon, sailed down the West African coast and around the Cape of Good Hope, up to Mozambique and Mombasa and then across to Calicut in India. In 1519 Ferdinand Magellan (c. 1480–1521) [3], seeking the route to the Orient that Columbus had failed to find, led a Spanish expedition around the southern extremity of South America and across the Pacific to the East Indies. Magellan himself was killed, but the survivors of his expedition, returning by way of the Cape of Good Hope, circumnavigated the globe for the first time.

The voyage of the Portuguese

Vasco da Gama's expedition [2] eastwards was less a voyage of discovery and more an armed embassy determined to open up Portuguese commerce with the East. It was the

culmination of almost a century of tentative, hesitant exploration by the Portuguese in which their frail caravels (light Mediterranean sailing ships) had groped their way along the West African coast and finally rounded the Cape. Lured by the gold and ivory of Africa, and by the prize of Eastern trade which awaited Europeans who could reach India by sea, the captains of Henry the Navigator (1394–1460) [1] paved the way for da Gama by voyages to Madeira (1418) and the Azores (1431), by rounding Cape Bojador (1434), the discovery of the mouth of the Senegal (1444), the sighting of Sierra Leone (1460) and eventually the discovery of the Cape of Good Hope by Bartholomew Diaz (c. 1450–1500) in 1487.

The motives of the explorers

The motives behind these early explorations, whether Portuguese or Spanish, were a combination of acquisitiveness and religious zeal. Barred by the Italians from the large prize of Mediterranean trade, deprived of the profits of the luxury commerce in Eastern goods which Muslims and Venetians together

controlled, the Iberians sought new routes to the sources of supply. At the same time they were spurred on by their crusading zeal.

But not all the voyages during this period were by Iberians. Under Spanish patronage the Genoan Christopher Columbus sailed in search of a westward sea route to the Indies trade, and in October 1492 landed in the Bahamas, believing them to be an Asiatic archipelago. By 1504 he had made three more voyages to the Caribbean, but had come no nearer to proving that Asia had been found. Meanwhile, from England, the voyages of John Cabot (c. 1450–c. 1500) along the northeast coast of America, and the explorations of the Florentine Amerigo Vesputci (1454–1512) along the north coast of South America and Brazil on behalf of the Spanish, led to the belief that there was an uncharted land mass to the west between Europe and Asia, a New World [4].

The Portuguese had many advantages over other European rivals in the exploration of Africa and Asia. The Italians were bottled up in the Mediterranean, the Spanish were not united into one kingdom until 1479 (the

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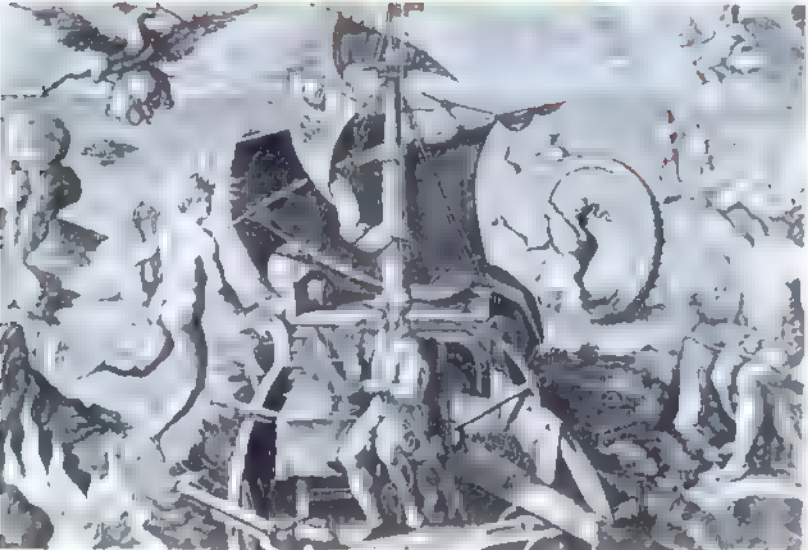
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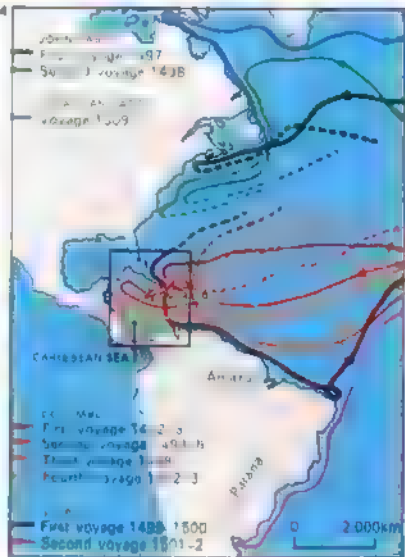
1 Prince Henry of Portugal, the Navigator, was the most important of the precursors of the age of exploration. Placing gentlemen of his own household in command of his ships, Henry developed a systematic intermittent programme of exploration beyond Cape Bojador. By the time of his death his ships had advanced south by 2,415 km (1,500 miles).

2 Vasco da Gama's voyage by which he reached Calicut in 1498 was an event of great significance, but his achievement cannot be ranked with that of Magellan or Columbus. In sailing east he completed what others had begun. Diaz had rounded the Cape of Good Hope in 1488 and in fact accompanied da Gama part of the way on his Indian voyage.



3 Ferdinand Magellan, a Portuguese employed by the King of Spain, embarked in 1519 from Seville on the voyage in which he sailed through the strait that bears his name. He then crossed the Pacific to the Philippines where he was killed. Del Cano completed the circumnavigation.

4 Westward voyages, until Magellan's circumnavigation, were a gradual process of realization that an uncharted continent lay between Europe and the Indies. While the Portuguese sailed eastward to the spice trade, Spain and England were anxious to find a quicker westward route.



expulsion of the Moors was not complete until 1492) By then the Portuguese had taken the lead

A small seafaring nation, Portugal possessed a large fleet of ships, a seafaring population trained on ocean fishing, a well-organized system of marine insurance and investment and a royal family ready to back these maritime enterprises. Moreover, in the fifteenth century the design of European ships had developed rapidly and so had the necessary navigational aids

Portuguese dominance in the spice trade

By finding a direct route to India by sea the Portuguese were able to gain an advantage in the spice trade. The architect of Portuguese supremacy in the Orient was Alfonso d'Albuquerque (1453-1515). In 1510 he seized the island of Goa, in 1511, Malacca. From the East Indies Portuguese ships went to China and sailed annually between China and Japan. Their twin commercial aims were to monopolize the spice trade with Europe and to get as large a share as possible of the inter-port trade of the Indian Ocean

But in fact the Portuguese commercial empire of the sixteenth century - the result of the age of exploration - achieved less than its architects had hoped. The Portuguese succeeded in overawing but not in controlling their Asian competitors at sea. Until the coming of the Dutch they retained a monopoly of the sea route around the Cape which they had pioneered. But they never achieved a monopoly of the spice trade between Europe and Asia. The Venetians, supplied by the old land routes, continued to sell some spices in Europe, while the Portuguese did not achieve control of all the spice islands. Their Estado da India [7], a set of fortified trading-posts clinging sometimes precariously to the coast or to islands, never penetrated and certainly did not dare to challenge the empires of mainland Asia.

The explorations in the East were initially more important to Europe than for the countries explored. They indicate a shift in the centre of gravity of European trade from the Italian states to the Atlantic. The new routes to the East by sea permanently changed the mercantile map of the world.

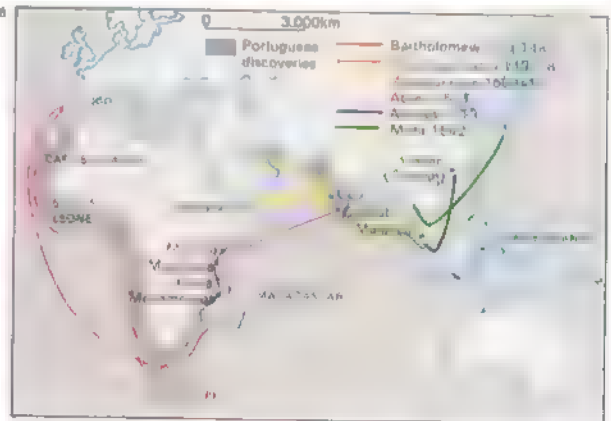


The estrolabe, together with the quadrant, was one of the chief navigational aids that made exploration possible

5 Lisbon in the late 18th century, with a population of about 100,000, was the largest city in Portugal

It was the nerve centre of her seaborne empire where the spices of Asia were redistributed to the Mediterranean and Atlantic world in exchange for their goods in the next century

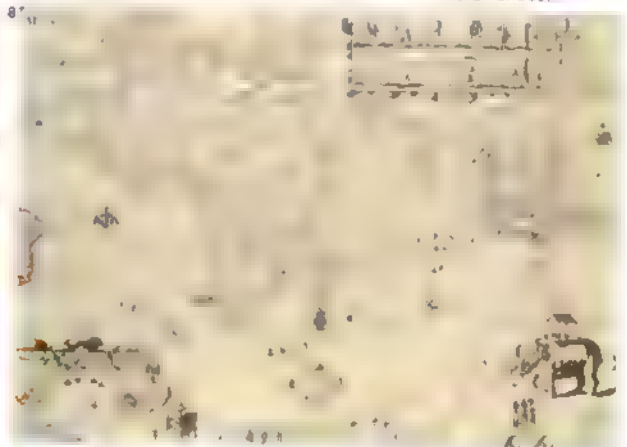
Portugal was to lose her commercial dominance in Asia and her political independence in Europe



6 The route to the Indies took the Portuguese 30 years to develop from the time that Diaz rounded the

Cape of Good Hope in 1488. The greatest single step was da Gama's crossing of the Indian Ocean

but it was the later ventures who gained for Portugal her central position in the trade of the Far East



7 The Portuguese empire in the East consisted of a string of fortified trading posts all the way from Sofala in east Africa to Macao in the China Sea. The headquarters of the Estado da India was Goa on the western coast of India. The grand forts, such as this one, that the

Portuguese built in Goa were meant to overawe rivals from the sea and to dissuade attack from the hinterland

8 The Dutch began to sail eastwards in 1596. Their innovation in getting to the East Indies was to leave India on their flank and sail

direct from the Cape to the Sunda Strait and then turn north to Java. This new route had the advantage of by passing Goa and Malacca, but it also meant that they had to carry bullion or European goods direct to Indonesia without the support of local Asian trade

Americas: conquest and settlement

By the early sixteenth century the Spaniards had established colonies in the Antilles and the Isthmus of Panama. The mineral resources of these islands, however, proved to be slender and, despite the name Golden Castle, the area had little to offer. Trading expeditions along the coast of Yucatán revealed a likelihood of greater wealth in the interior. In 1519, after two preliminary expeditions, the governor of Cuba, Diego de Velázquez (c. 1460–c. 1524), sent a fleet under Cortés to settle the region [1A].

The major conquests

Hernán Cortés (1485–1547) [2] and his expedition of 550 men landed on the coast of Mexico and founded the settlement of Veracruz. Cortés then threw over Velázquez's authority and placed himself directly under the crown. By a series of adroit diplomatic moves and superior military technology, Cortés took formal possession of the Aztec capital of Tenochtitlán. He was welcomed by its ruler, Montezuma, whom he promptly imprisoned. According to Cortés, Montezuma made a willing donation of his

empire to Charles V in the mistaken belief that Cortés was the emissary of the god Quetzalcoatl. This widely circulated story is almost certainly a fable.

The conquest of Peru in 1532 by the adventurer Francisco Pizarro (c. 1471–1541) [4] was the result of the search for gold. When the Spaniards arrived on the Peruvian coast at Tumbez, the Inca Empire was divided by a civil war. Atahualpa emerged victorious shortly before Pizarro caught up with him at the fortress of Cajamarca [3]. Here the Spaniards succeeded in killing most of Atahualpa's retinue and capturing the Inca himself. Atahualpa offered to fill his cell with gold in exchange for his freedom. Pizarro accepted, but although Atahualpa kept his part of the bargain he was not released. The value of his ransom has been estimated at about 20 million dollars. It included the treasures of the Temple of the Sun and was all melted down for bullion.

Pizarro lacked Cortés's powers of leadership and after the subjugation of the Inca Empire, the conquerors began to fight among themselves. The civil war lasted until the

death of Pizarro in 1541 and the execution of his brother Gonzalo in 1548.

With the conquest of Peru, the attention of the European explorers turned elsewhere. Expeditions were sent to Texas and Florida and some settlements were established. The colonization of New Mexico was slightly more determined but the area soon became little more than a military outpost.

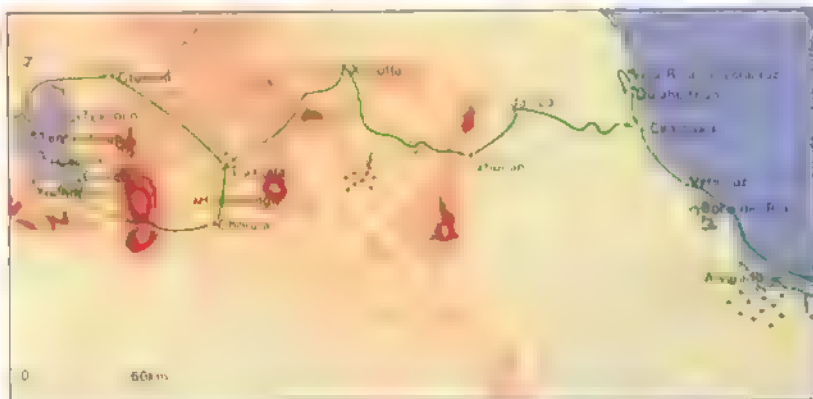
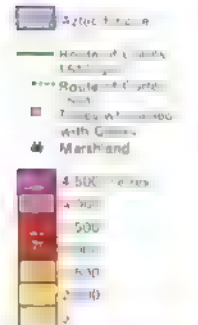
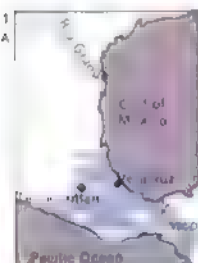
Administration

The Spanish crown, fearful lest the more successful of the *conquistadores* (conquerors) should set up independent fiefdoms, rapidly took control of the government of the new colonies. The administration was complex. At the top was the viceroy, responsible only to the crown [5]. The distance between Spain and the Indies inevitably placed great power in his hands.

To maintain the balance of power within the colony, a separate court of appeal, the *audiencia*, was established. This had the right of direct representation before the crown and could suspend crown officials from their duties; it also served to represent the Indians

CONNECTIONS

See also



1 Cortés landed at Veracruz [A] on 22 April 1519. By forming alliances with the peoples of Cempoala, Jafapa and Tlaxcala, he maintained his supply line with the coast [B]. After some

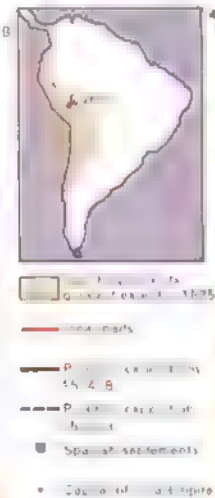
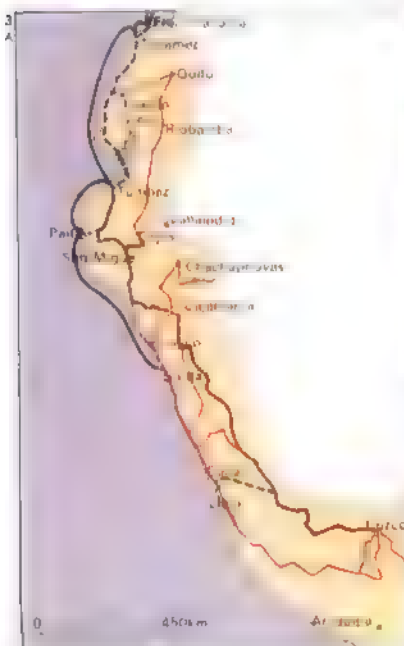
skirmishes, he persuaded the powerful independent 'state' of Tlaxcala to join him, thus obtaining the much needed base from which to launch his attack on the Aztec capital of Tenochtitlán. After

the retreat of the 'Sorrowful Night' on 30 June 1520, Cortés fled to Tlaxcala. With the help of local workmen he built a fleet of brigantines to harass the defenders of Tenochtitlán from the lake.

These were carried in pieces and assembled on the lake shore while the army, composed largely of Tlaxcalans, attacked the towns that seemed sympathetic to the beleaguered Aztecs.

2 Hernán Cortés was born in the province of Estremadura in Spain. He sailed for Hispaniola in 1504 and as Velázquez's lieutenant he took part in the conquest of Cuba. His career sub-

sequent to the conquest of Mexico was like that of so many *conquistadores* spent largely in an effort to secure from the crown due recognition of his achievements. He died in Spain in 1547.



3 A superb network of roads helped Pizarro to conquer Peru. Reaching Tumbez in 1531, he then marched inland



to Cajamarca to find the Inca ruler Atahualpa. Following a surprise attack

the city fell and Atahualpa himself was later executed. Pizarro founded a new

capital at Lima, thus shifting the centre of Inca society from Cuzco to the coast.

4 Charles V gave his support in 1528 to Pizarro's third expedition to Peru. Pizarro had accompanied Balboa on his march across the isthmus of Panama in 1513 and later formed a partnership with Diego de Almagro and Fernando de Luque to settle Peru and seek out the riches of the Incas. The first expeditions (1524–8) were unsuccessful. In 1531 Pizarro and his brothers left Panama for Peru, joined later by Almagro. Pizarro lacked the diplomatic skills of Cortés and was unable to curtail the ambitions of his followers. Shortly after the subjugation of the Incas Almagro broke away and during the ensuing civil war Pizarro was murdered.

before their overlords and to administer justice. The crown also imposed the system of *residencia*, whereby a crown official was examined at the end of his term of office and any misconduct punished. These cumbersome institutions were often ill-equipped to deal with the American situation.

The Indians were "granted" to settlers under the *encomienda* system. Theoretically this provided the colony with a salaried labour force, each settler was given a number of Indians (but not their lands) from whom he took tribute or labour. The position of the Indian was therefore rather like that of the European serf and the power that this appeared to give to the colonists forced the crown to make several efforts to abolish the system. By the Laws of Burgos of 1512-13 and subsequent royal decrees, the number of Indians held in *encomienda* was limited and their duties were to some extent lightened.

The wealth of the Americas

The great wealth of America lay in its silver deposits. The mines of Potosí in Peru and of Zacatecas, Guanajuato and the other Potosí

in Mexico were all discovered during the 1540s and their output soon came to dominate the European silver market. The colonists benefited little, however, and were forced to subsist on agriculture and trade in lesser commodities, such as silks, with the Philippines. Precious metals were shipped via Seville which enjoyed a monopoly of America's trade and where a clearing house, the *Casa de la Contratación*, had been set up as early as 1503. The Americas had always been a Castilian venture and the Castilian crown benefited directly [6].

The impact of Spanish colonization upon the New World was considerable [9]. The introduction of European crops and livestock destroyed the domestic life of the Indians and altered the ecological balance of central Mexico. The disruption of old tribal divisions and of the hierarchy of Aztec society produced an alienated, enfeebled community which rapidly succumbed to European diseases so that the population declined rapidly during the sixteenth century. Latin America thereafter was a mixed culture dominated by that of the Spanish settlers.

KEY



This 17th-century Inca wooden beaker shows Peruvian Indians and a European together. At first the Spaniards tried to preserve the Indian social structure

using local chieftains as justices and tax collectors. However, over the course of the 17th century the native nobility intermarried and the Spaniards took Indian

women as concubines, producing a mixed group known as *mestizos*. The Indian culture declined and was supplanted by that of a white, or near white society.



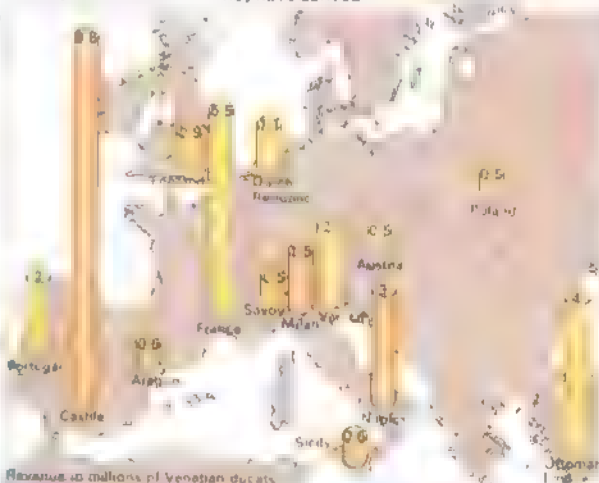
The Spanish crown rapidly replaced the conquistadors with its own officials who set up a complicated government machine providing checks and balances to prevent any single individual from growing too powerful. There was also the *audiencia*, a court of appeal to which every citizen had recourse and which was responsible directly to Spain. This former governor's palace is in what is now Morelia, central Mexico.

Silver bullion from the Indies provided Castile especially with great wealth during the 16th century, but the in-

flux slowed as the mines were worked out in the 17th. The massive inflation of 17th-century Europe may have derived

from these imports of American silver.

Spanish territories
Other European



7 Spanish cruelty towards the Indians was notorious. Brief *Relation of the Destructions of the Indies* by Bartolomé de las Casas, which became a best seller during the 16th century, he peddled to foster and disseminate this "black legend" its popularity, however, was due more to fear and hatred of Spain than to love of the Indians. This illustration by De Bry appeared in *The Netherlands* as anti-Spanish propaganda.



8 The conquest of America by Europeans in the 16th century meant that the indigenous cultures were almost wiped out. Because of the Spaniards' desire to convert the Amerindians to Christianity, the traditional features of the native way of life were absorbed into the dominant culture, although this process was uneven. The tribes that survived were the most primitive and they never developed, but the civilization of the Aztecs and Incas wholly disappeared.



9 By the Treaty of Tordesillas of 1494 the Spaniards and the Portuguese - at the instigation of Pope Alexander VI - agreed to a demarcation line between their territorial claims. When Brazil was discovered in 1500 by Cabral, Portugal naturally claimed it but did not seriously colonize it until 1630. Spain and Portugal were united between 1580 and 1640 so that Brazil was open to attack by Spain's enemies. In 1630 the Dutch seized a rich area in the north, which they kept until 1654 when they were driven out by wealthy landowners. Throughout the 17th century, the Brazilian economy developed rapidly, based on sugar and tobacco together with cotton and cattle.



The rise of banking

Between the twelfth and the thirteenth centuries Italy exercised European supremacy in commerce and finance and was responsible for most innovations in business and banking. Banking was a very active industry and supremacy was being eroded. In twelfth century Italian banks accepted deposits, exchanged foreign coins for their currency and engaged in money-lending. Later the Florentines became the leading Italian bankers. Throughout this period banking and trade were invariably combined and the commercial contacts of the Italians throughout Europe necessitated the regular international transfer of money. The simple but commercially important bill of exchange was developed in the fourteenth century and avoided the problems and dangers of transporting gold and silver coins.

Activities of medieval bankers

Largely as a consequence of the Church's ban on lending money for interest (usury), medieval bankers made exchange operations a key activity. Although the bill of exchange did involve a credit element until the money

was paid at its destination, it was not classed as a loan.

The banks' profit came from the exchange rate. In the Middle Ages it was 1 per cent. The prohibition on charging interest naturally also impeded the evolution of the basic banking activities of borrowing and lending at interest, although deposit banks did exist in Italy, but not in Bruges [1]. They offered non-interest-bearing current accounts and the facility of making transfers between customers' accounts.

From the fourteenth century onwards some towns allowed written orders (the distant ancestor of the cheque) to make payments or transfers. These orders preserved the original requirement that such orders had to be made orally by the depositor in person.

A decline in private banking in the Low Countries and Italy in the fifteenth century is illustrated by the fall in numbers of large Florentine banks from 80 to eight between 1370 and 1526. The heyday of medieval banking are revealed in an asset register in 1585 that over the years 96 out of 100 Venetian banks had failed, often through

careless loans to merchants and governments. Deposit banking recovered in the late sixteenth century, often in the form of municipally controlled public banks in Venice and later in Amsterdam [9], both of which accepted deposits and transferred money between customers' accounts.

Small banks and money-lenders

More widespread than the handful of great Italian merchant banks such as the Medici [7], were small local banks. These shared many of the functions of their large counterparts: accepting deposits, making loans on pledges and changing money, but avoided exchange and transfer operations.

Throughout Europe there were also the revived but necessary money-lenders and pawnbrokers who made small short-term loans to the poor [11]. Even in large, substantial peasant economies, money was needed to pay taxes, and the poor often had to borrow in hard times. Some of these money-lenders were Christians but most were Jews whom the usury laws did not apply, and who could therefore charge interest. Some such as

CONNECTIONS

See also



1 Bruges whose financial activities were dominated by Italians, was the only permanent medieval banking centre outside Italy. The late 15th century witnessed the rise of the south German houses. The major 16th-century centres were Antwerp, Lyons and the seasonal fairs in Castile and at Besençon. The Genoese controlled the Besençon fairs which soon left and reconvened in Piacenza by 1679.



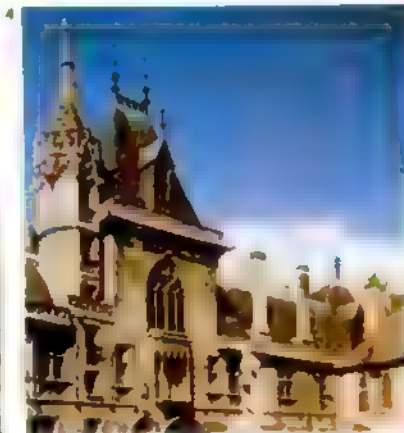
2 The Papacy received dues and taxes from all over Europe. Headless of 'hereditary' profits from the Papacy's so-called 'indulgences' borrowed at interest from bankers. The great success of St Peter's in Bayon in

the early 16th century was partly financed by the proceeds from the sale

of indulgences conveyed by the Fuggers, who had broken the Italian monopoly

3 Aaron, a noted Jewish gem merchant, lived in this house in London from about 1170-80. He conducted business with the greatest families of England and financed part of the building of a Canterbury Cathedral. On his

death a special department of the Exchequer had to record his huge financial assets. The Jews were expelled from England in 1290 as the king had to take over their assets and debts from the nobility.



4 Jacques Coeur c. 1395-1456: French merchant, money lender and financial adviser to the king. He was expelled from France in 1453 and died in exile.



5 This painting by Quentin Massys c. 1465-1530 shows the money changer and his assistant working. For a small fee they would exchange gold for silver coins or the coins of one currency into another.

those in Florence in 1437 were officially invited to set up licensed pawnshops so that Christian souls should not be jeopardized through usury, although Christian money-lenders were not above charging disguised interest.

In mid-fifteenth-century Italy churchmen established non-Jewish pawnshops, the *Monti di Pietà*, to meet the needs of the poor. The charitable purpose of these pawnshops was perverted, however, when governments and the rich turned to them for loans.

Sixteenth-century banking

The sixteenth century saw no major innovations in banking practices but, as the European economy expanded, the scale of operations increased, credit became more extensive and other nationalities, especially the south Germans, adopted Italian methods. London remained a second-rank financial centre until the late seventeenth century. Methods of obtaining credit became more flexible as a result of the increasing use of endorsement and discounting, although until the seventeenth century these were rarely

applied to bills of exchange. Interest rates fell and some Protestant states adopted a more liberal attitude towards usury. Expanding trade was reflected by the ever increasing unofficial system of settling international trading debts and balances during the short seasonal European trade fairs. The fairs lasted until the late sixteenth century when the fairs began to lose their importance.

The most spectacular development was the mid-sixteenth-century French government borrowing to meet the enormous costs of war. The French kings raised money in Lyons, the English and Spanish [8] rulers in Antwerp, the greatest centre for long distance trade of the era. Fortunes were lost as the kings of France and Spain defaulted on their debts, just as Edward III of England had ruined two Florentine banks in the 1340s. Ordinary individuals as well as great banks such as the south German Fuggers [7] were hit. Although the Fuggers saw their business reduced in scale by the end of the sixteenth century, the era of international financial banking was over, although more mundane financial banking continued to prosper and develop.

REV

Leinw. des adl. S. (Haupt) von Augsburg

*Der Herr quincus pater - wasser bezalet auf die wirt
- Johann Rinnerstor. einen quincus von Herrn Georg
- von Smeten der herten herten herten - samant.
- herten herten herten / herten herten herten herten
- on. 2700. dergewissen. zu gold. sandt mir für wirt
- einen quincus von Herrn Georg herten herten 3
- + herten herten zu herten herten. herten herten
- mir mir für herten herten, der wirt zu alldem
- und herten herten, herten herten herten
- in herten herten*

The form of the bill of exchange changed little from its evolution in the 14th century. To avoid the Church's prohibition on usury it had

to instruct the recipient or another country to make payment in another currency to the person specified. Usually the rate of exchange

was given. This bill, signed by Anton Fugger, required the Fugger agents in Rome to pay 2,700 florins to the Dean of Ewage.



6 The Medici family were the greatest of all 15th century Italian bankers with branches in France, England and the Low Countries and Italy. Under Cosimo de' Medici (1389-1464) like his successors a pattern of wealth, they reached the peak of their influence and wealth. Already in serious financial trouble, the firm finally foundered when the Medici were expelled from Florence in 1494.

7 In the early 16th century the European wide commercial and financial empire of the Augsburg family, Fugger was the largest that the Western world had ever seen. It rested on lucrative mining monopolies, extensive trade and loan on a vast scale. The most spectacular period occurred under the guidance of Jakob Fugger the Rich (1459-1525). Here painted by Albrecht Dürer. He learnt the banking trade in Italy.



8 Jakob Fugger's most famous loan was made to the Hapsburgs 543,585 florins that helped to buy the votes of the imperial electors who made Charles V of Spain Holy Roman Emperor in 1519. The fortunes of the Fuggers and the Hapsburgs were thereafter closely linked. Charles V had to borrow unprecedentedly large sums from foreign bankers living in Antwerp to pay for his wars with the French, the Turks and the German Protestants.



9 The Amsterdam Exchange Bank (1609) was one of the most famous and successful of the municipally supervised banks set up after the 15th century. It received cash deposits of every sort but transferred money between customers' accounts traded in bullion and handed out bills of exchange over 600 florins. Like other municipal banks it did not make loans, grant overdrafts or discount bills nor did it issue bank notes.

The politics of Europe 1450–1600

Medieval Europe was the *respublica christiana* – the universal world of Christendom ruled by two swords – the spiritual wielded by the pope, the secular by the emperor. But the sixteenth century saw the disintegration of this ideal and the growth of monarchical states whose triumph was at the expense of the Church and the nobility. The process was at its clearest in France [Key] where the crown gradually succeeded in converting lands held under the old feudal system into lands held by the crown, through a succession of accommodations between the crown, the papacy and the nobility.

Popes and kings

The disputed claim to the papal succession from 1378 to 1417 damaged the position of the pope as head of Christendom and the rival candidates became the puppets of secular rulers. Later popes retreated to play Italian politics while the princes of Europe exploited them to control the Church.

Monarchs of the sixteenth century attempted to increase their control over the nobility. The medieval king's real power

rested ultimately on his wealth and the military strength that he could command. Towards the end of the Middle Ages a few noble families in many parts of Europe greatly extended their own power and fortunes. The Percy family, for example, had as much power in the north of England as kings. At times of weak kingship this situation produced civil war in France, Spain and England (the Wars of the Roses, 1455–85). But the disorder of war threatened the privileged classes as a whole and they looked to a strong king to restore stability. The princes set about re-erecting the former effective monarchical rule based on financial resources, powerful adherents, the centralization of the administration and the neutralizing of the power of the independent nobles.

In England the Lancastrian Henry VII (1457–1509), who won his crown in battle, attempted to establish personal control of government. Henry enjoyed the forfeited lands of the vanquished and was financially stable. He administered the affairs of the realm from his own household and was able to discipline a nobility weakened by wars and

to reduce the numbers of their military retainers. By marrying into the House of York he minimized the possibilities of dynastic rivalry. Henry rebuilt a strong personal monarchy in a realm that had seen nothing like it since Edward I (1239–1307). His son, Henry VIII (reigned 1509–47) [5] continued to strengthen the crown. He incorporated Wales within the kingdom and brought the wealth and authority of the Church into his hands.

Francis I and Charles V

Francis I (1494–1547) came to the throne of France facing a difficult situation. France had been rent by war, nobles such as the Bourbon family were powerful and the kingdom was large and divided. Francis exploited the royal rights of direct taxation, centralized the treasury and attempted to impose uniform Roman law codes on all the provinces.

There seemed some hope for a degree of unity and centralization in Spain when the kingdoms of Aragon and Castile were both inherited by the Hapsburg Charles V (1500–58) in 1516 [1]. Charles suppressed

CONNECTIONS

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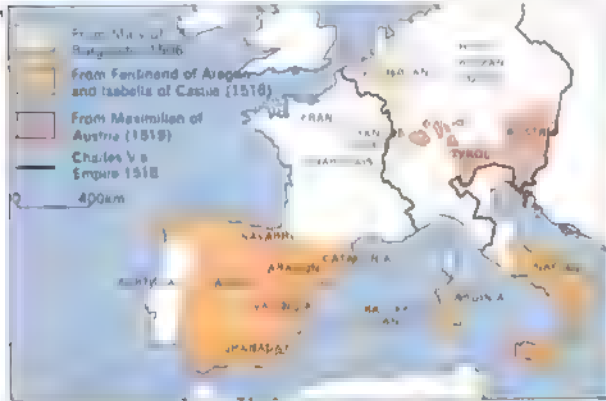
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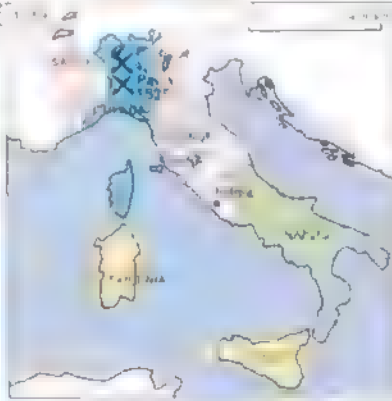


1 The empire of Charles V was the product of dynastic accident. He succeeded his father Philip as Duke of Burgundy in 1508 and his grandfather Ferdinand as King of Aragon and of

Castile in 1516. The territories of the Holy Roman Empire came with his election to the title in 1519. There was no logic to the empire and problems of communication made imperial rule

almost impossible. Charles resolved these difficulties by handing The Netherlands (1555) and Spain (1556) to his son Philip II and the rest of his empire to his brother Ferdinand. 1556,

4 The 'Field of the Cloth of Gold' is a painting that commemorates the historic meeting of King Henry VIII of England and King

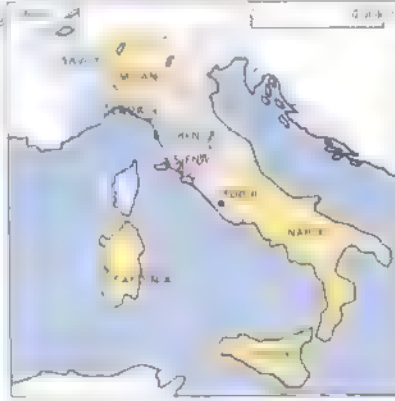


2 The warring Hapsburgs and Valois dominated early 16th-century politics. Charles V of the Hapsburgs, inheriting disputed claims over parts of Burgundy and Italy [A], Francis I, consolidating Valois rule in France, feared encirclement by the

Francis I of France in June 1520 to conclude a long awaited peace. The encounter was marked by great festivity and elaborate preparation.

Henry had built a temporary palace all tents were embellished with gold and velvet and the royal interviews were occasions for

jousting and other contests of chivalry, ceremonial banquets and fireworks displays. As each king tried to outdo the other



Hapsburgs. The conflict centred on Italy, important for its wealth and a vital hub of communications for the Hapsburg possessions in Spain and the empire. The route through the Italian

passes was the only alternative to the Channel route, which was not under Charles's control. Most of the disputed areas came under imperial control by the Peace of Cateau Cambresis (1559) [B].

in pomp and splendour, the occasion turned into a trial of strength. No alliance resulted and open war had broken out by 1522.



3 The life of Niccolò Machiavelli (1469–1527) coincided with the rise of the nation state and the beginning of the art of statecraft. Machiavelli outlined a guide for princes in his book *The Prince* (1532), and his *Discourses*

on the first ten books of Livy, the Roman historian. *The Prince* shocked Christian Europe and earned for its author a reputation for devious and treacherous statesmanship. He became a leading figure of the Renaissance.



the "comuneros" revolt and sent royal officials (*corregidores*) to enforce his will. But the nobility remained powerful and jealous of their privileges and the two kingdoms remained separate. Charles was distracted by his imperial duties (he was also Holy Roman Emperor) from consolidating Spain. In order to obtain Castilian money, he recognized the privileges of the nobles. Philip II (1527-98) continued to rely on Castilian bullion for his campaigns and neglected Aragon, which voted little money to the crown. The kingdoms of Spain were never centralized and in the 1600s Aragon and Catalonia revolted against the crown.

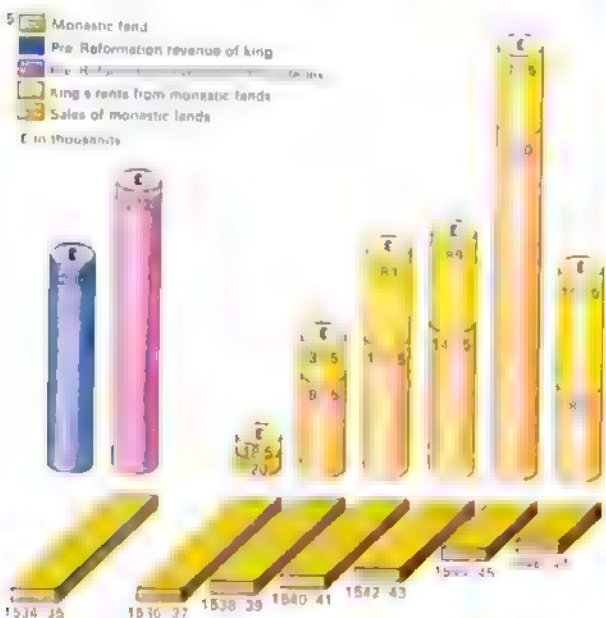
When he became Emperor in 1519, Charles V tried to centralize his lands through imperial institutions and constant visits, but the task was impossible. The empire had no unity, large cities such as Nuremberg were proud of their independence, the princes were trying to assert themselves and powerful families such as the Wittelsbachs were anxious to stop the Hapsburgs from becoming too strong. The Reformation [8] finally divided the empire.

In the late sixteenth century the Hapsburgs gained control over their hereditary lands in order to provoke resistance in Bohemia.

Attempts by both Charles V and Francis I of France to increase control of their kingdoms led them into more than 40 years of war over disputed claims in Italy [2]. Instead of becoming more unified, Italy was completely fragmented by the war.

The need for a strong monarchy

Although more powerful monarchies emerged in Western Europe during the sixteenth century, there were serious limitations on their control. Without a paid civil service kings still depended on the nobility. Men thought of Catalonia or Provence before they thought of Spain or France, allegiance to family, locality or lord could still overcome allegiance to the king. In the late sixteenth century religious divisions threatened the monarchy in England and encouraged a return to separatism in France. But the chaos of war once again alerted the ordinary nobles to the need for a strong king as the guardian of law and order.



7 Lisbon, central market for the spices of Asia, was the heart of a Portuguese empire that expanded east to the Indian Ocean.

and the Moluccas and west to Brazil. The population of this cosmopolitan city increased from about 50,000 in 1500 to more than

100,000 by the end of the sixteenth century. Similar developments in Amsterdam, Madrid, Antwerp, London and Paris were integral



5 Henry VIII's increased revenue from his dissolution of the monasteries, with the proportion received from the rent and sale of the lands, is shown here. Henry took this action four years

after his break with Rome and claimed that he did it to put an end to corruption. But his real motive was to acquire an extra income for wars to further his dynastic ambitions in Europe.

6 Christ Church (Cardinal's College), at Oxford, was founded by Cardinal Wolsey (c. 1475-1530) in the 16th century. Its purpose was to train young scholars in philosophy

rhetoric, humanities and civil law. The educational foundations of the period owe much to the humanist belief in the relationship between education and the nobility of service to the realm.

to the rise of the modern states. Capital cities, already centres of trade, also became the base of government and of court life.



8 Political propaganda in Reformation Germany is typified by this woodcut of a figure brandishing the banner of freedom. The development of printing, the growing respectability of vernacular languages and a period of religious and political conflict gave rise in the early sixteenth century to cartoons and broadsheets as a means of persuasion. Pictorial representation had the widest appeal in an age of limited literacy. Monks were depicted as wolves and the enemies of Luther were caricatured. The method of contrasting woodcuts in juxtaposition was employed frequently. In one the Ascension of Christ was shown next to the descent of the pope into hell.



hired henchmen, recruited to serve them for pay or political favour, without the moral or social obligations of earlier feudalism. "Bastard feudalism" – the short-term recruitment of military retainers and local agents from among the gentry by formidable political figures – was certainly practised, but these "empires" of patronage were never very solid. The great nobility might indulge in affrays like the Battle of Nibley Green (1469) between the Berkeleys and Talbot families, but so did respectable gentlemen such as the Pastons. Moreover, "bastard feudalism" restrained potential trouble-makers by associating them with great political factions.

For most of the century the nobility co-operated remarkably well to govern the country. Powerful captains such as Richard Beauchamp, Earl of Warwick (1382–1438) hoped the Lancastrian kings would lead them in victorious and profitable Continental war, and until the English were finally expelled in 1453 men such as Warwick had more to gain by exploiting the French than by civil war.

During Henry VI's long minority

(1422–42) co-operative rule by the king's Council proved a successful and generally popular experiment, despite the rivalry of Henry Beaufort and Humphrey, Duke of Gloucester (1391–1447). The financial weakness of the Crown became an increasing problem however, and this, combined with the unpopularity of the queen and Henry's lapse into madness allowed the dormant claims of York to acquire genuine support during the 1450s.

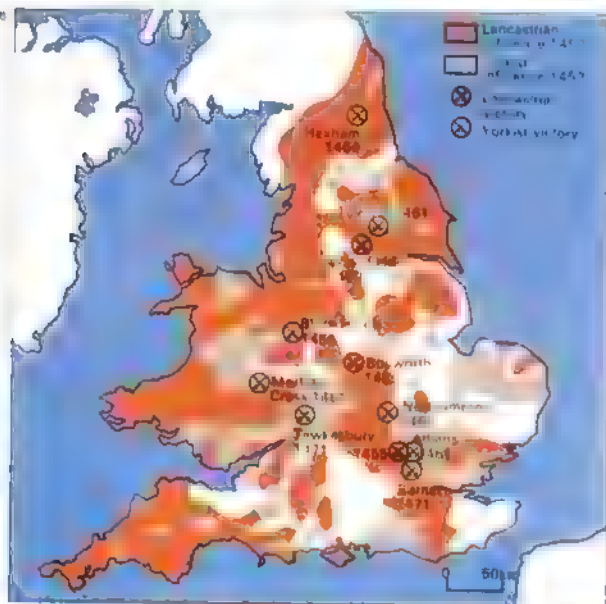
The social progress and cultural achievements of the century were considerable. The rise of the independent yeoman farmer [3] the cloth-maker, the wool exporter and the small-town merchant encouraged a multitude of local enterprises, to the general profit. Such men were usually literate increasingly so as printed books became more readily available [4]. English architecture, both ecclesiastical as in the magnificent King's College Chapel, Cambridge, or domestic as in Fattershall Castle, reached the zenith of its brilliantly distinctive Perpendicular phase. Whatever the troubles of the monarchy these achievements remained



Richard Neville, Earl of Warwick (1428–71), called 'the Kingmaker', supported the York claim to the throne. Upon the

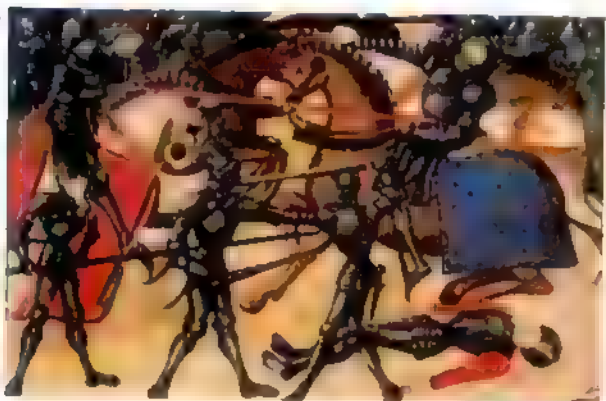
Yorkists' victory in battle he received vast tracts of – and end important posts of state. At first a dominant influence on

Edward IV he then went out of favour engineered the brief restoration of Henry VI and was killed fighting at Barnet.



5 The Wars of the Roses were fought between descendants of Edward III. There was little consistent support from any particular area for either Lancastrian or Yorkist claimant to the throne although from 1461 the Lancastrians relied on the support of the "raiders" of the Scottish borders.

7 The confused Henry VI was taken from the Tower and restored to the throne in a ceremony at St Paul's in 1470. His wife, Margaret of Anjou, was tenacious in keeping the Lancastrian cause alive in spite of his madness. Henry had become king in 1422 aged nine months. He was finally murdered in 1471 after the return of Edward IV.



8 At the battle of Barnet (April 1471) Edward IV defeated his former ally Warwick and cleared the way for his own victory the following month over the forces of Margaret of Anjou and her son the Lancastrian heir who was killed fighting.

Although many of the leaders of the defeated side might lose their heads after such a battle, it was not impossible for their supporters from the gentry to survive by offering their services to their victors. This was hardly affected the lives of the poor.

9 Edward IV had political as well as military talents, and despite his light-hearted manner he was an intelligent determined king. His centralizing policies particularly in the financial sphere laid the ground for those of the Tudors.



10 The execution of Edward Beaufort, Duke of Somerset, followed his capture in the Battle of Tewkesbury (1471), the final

Yorkist victory that restored Edward IV. Many Lancastrians were executed for treason after summary trial by military law.

Scotland 1314–1560

Early in the War of Independence (1306–14) against England, the Scots had made the 'aid alliance' with France – an agreement between the two countries to act together against England. This alliance was renewed at various times during the next three centuries although it is doubtful whether it brought advantages to Scotland.

Conflict with England and the clans

Peace was eventually made some years after 1314, but as Edward III (reigned 1327–77) the young English king, began to assert himself it ceased to be kept [Key]. In 1332 the English king allowed Edward (died 1363) the son of John Balliol (reigned 1292–6), to try to reclaim Scotland from David II (reigned 1329–71), the son of Robert Bruce. Defeat forced David to flee to France and the conflict became absorbed in the Hundred Years War between England and France. At various times in the 14th and 15th centuries Scotland became involved in this conflict.

In spite of frequent wars, which particularly damaged the trade of the principal Scottish towns – those in southern Scotland – the

economy developed in this period, although the characteristic features of a primitive structure still adhered to it. From 1349 to 1350 the Black Death struck Scotland as it struck the rest of Europe and this plague returned several times, but because it became mainly an urban pestilence and Scottish towns remained very small, the country did not suffer greatly.

A more serious long-term development in the fourteenth century was the building up of the two branches of the great baronial family of Douglas, descended from Bruce's second-in-command, James Douglas (1286–c. 1330). This family became powerfully ensconced in the Border area, where at times it carried on negotiations or wars with English Border families as if it were an independent power. The Lordship of the Isles under the Macdonalds held a similar almost independent position in the Western Highlands and islands. Great independent aristocratic families could often supplant the king in the collection of his revenue and coerce and corrupt the local church, placing members of their own family into the better-

paid ecclesiastical positions. Nepotism was not confined to the nobles, many kings also used the Church to provide regular incomes for their bastard offspring.

The power of the Crown

James I (reigned 1406–37) was the first in a series of vigorous, often impetuous, short-lived kings who had a significant effect on the institutions of their country in their turbulent reigns. His reign saw the creation of Scotland's first university, at St Andrews, and the use of Parliament by the king as a means of gaining support from lesser folk in his struggle with the overmighty nobility [3]. The king also began the process by which a professional central court, instead of the King's Council, was developed to hear cases. Under James V (reigned 1513–42), this Court of Session obtained a more regular supply of money for the Crown by increased taxation. This provided funds for the Court, an important development towards professionalism in Scottish law.

James II (reigned 1437–60) reduced the power of the Douglases by the extermination

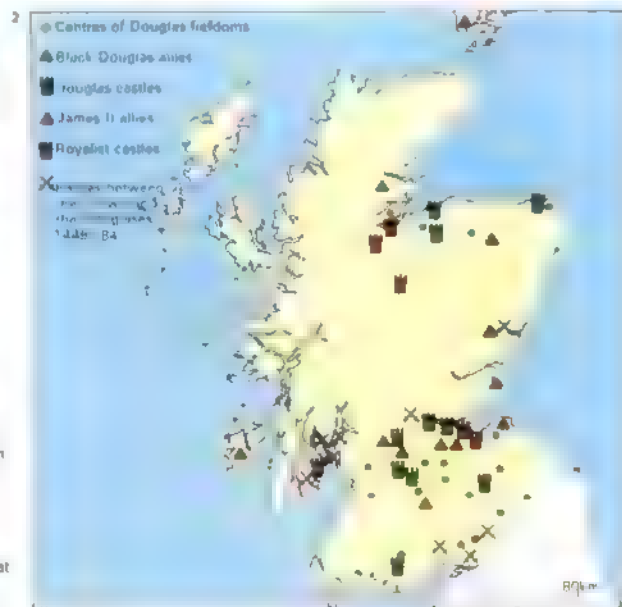
CONNECTIONS

See also



1 Scottish troops and their French allies are shown here attacking Wark Castle in 1385, one of the lesser English Border castles. The 'aid alliance' meant that Scottish forces frequently became involved in the Hundred Years War. This illumination is from Froissart's *Chronicles* of the 15th century.

2 The Black Douglas family's conflict with a succession of Scottish kings well illustrates the struggle between the nobility and the Crown in medieval Scotland. During the 15th century the power of the Douglas family in the Border area posed a growing threat to the Crown until they were finally suppressed by James II.



3 James I succeeded to the Scottish throne in 1406 at the age of 12, when he was held captive by the English. He remained a prisoner until 1424 when he was released in return for a large ransom. He returned determined to assert the power of the Crown and to give the Scottish Parliament an importance and authority similar to that of the English Parliament. Under his reign it introduced taxes, passed laws and reforms and supervised trade. A period of vigorous reform began that touched many aspects of daily life, extending the Crown's control. In 1426 a court for civil cases was created that sat three times a year to settle disputes.



4 James III's reign ended with an armed rising of the nobility. His defeat at Sauchieburn near Stirling in 1488 and his murder after the battle. This 19th-century print shows the battle with Stirling Castle, where James had in vain sought refuge, in

the background. The nobles' rebellion was probably motivated more by James's personality than by his policies: he was suspicious, avenging and unconcerned with affairs of state. The relatively short reigns of Scottish monarchs,

often ending violently amidst intrigue and conspiracy, resulted in a series of long minorities, beginning with James I, that undermined royal authority. For 200 years no Scottish ruler succeeded to the throne as an adult.

of the leaders [2]. James IV (reigned 1488–1513) in 1493 attempted to increase royal authority in the Highlands by destroying the Lordship of the Isles. He was unable to replace this power with effective central rule – and the main result was to leave the Highlands broken into separate and often warring clans. Efforts by successive Scottish kings to have courts appropriate to Renaissance princes led to the cultivation of the arts by James III (reigned 1460–88) [4] – who thereby annoyed his nobility – some splendid poetry in the reign of James IV [5] and great spending by James V on royal palaces.

Protestantism established

James IV's marriage in 1503 to Margaret Tudor (1489–1541) [7], elder daughter of the English King, Henry VII (reigned 1485–1509), was of great long-term significance to both countries, for it led to the union of the crowns in 1603 and, even before that, in the later sixteenth century, to peace between them. But peace was not achieved at first. James IV was drawn into war with Henry VIII (reigned 1509–47) in support of

his renewed alliance with France. James invaded northern England and was killed in an overwhelming Scottish defeat at Flodden Edge in 1513.

In spite of this disaster the Scots clung to the French alliance, partly because of the ruthless attempt of Henry VIII to dominate their country [7]. In particular, Henry hoped to marry his son Edward (1537–53) to James V's daughter and successor, Mary. But James's marriage allied him to the rising family of Guise, who came to represent the Catholic party in France. Meanwhile the weaknesses and corruption of the Catholic Church and the political needs of the government encouraged the promotion of a powerful group of Protestant nobles.

In 1560 the joint issues of external alliance and religion led to a brief war between the Catholic and French regent, Mary of Guise, and the Protestant lords in alliance with the English. The victory went to Protestantism and alliance with England, and this was confirmed in the Reformation Parliament of 1560, when the authority of the pope in Scotland was abolished.

RFV



David II (left) was captured by the English at the Battle of Neville's Cross in 1346 which effectively ended his invasion attempt. The English king Edward III (right) held David prisoner for 11 years before freeing him in return for a large ransom. This proved to be a crippling burden for Scotland and taxes were greatly increased to meet the debt. The Scottish economy, already undermined by wars with England, was weakened still further although over half the ransom money was finally paid. David also debased the coinage by minting more coins to meet the debt, a precedent followed by his successors – the first Stewart kings.



5 One of the more attractive personalities among the early Scottish kings, James IV styled himself in the role of a Renaissance monarch. He built new royal palaces, notably at Falkland and Linlithgow.

and encouraged learning and the arts. But he was not so successful in foreign affairs: in support of France, James invaded England in 1513 but his army was defeated at Flodden Edge and he was slain.

6 Margaret Tudor lacked the political drive and skill of her brother, Henry VIII, while sharing similar marriage difficulties. Thus, following the death of her husband, James IV at Flodden, her

personal life was a considerable source of instability during the minority of James V. The man shown with her here (left) is probably the Duke of Albany (c. 1484–1536), who acted as regent until 1524.



7 The formidable fortress at Stirling has played a major role in Scottish history. Probably built in the 12th century, it was the birthplace and residence of several monarchs, rivaling the capital of Edinburgh.

8 The Augustinian Border abbey of Jedburgh was one of the richest foundations in Scotland. During the 16th century it was burnt three times by the invading armies of Henry VIII.



The Renaissance: humanism

It is impossible to ascribe precise dates to the Renaissance. The traditional picture of a rebirth of creative thought and learning after the dark years of the Middle Ages has rightly been discarded. The new learning was not wholly original, and there was no dearth of creative thought in the Middle Ages. But this modification does not detract from the importance of the Renaissance, which from the fourteenth to the late sixteenth centuries produced the growth of a more secular spirit, a renewed interest in classical civilization and an increased respect for literature.

The classical revival

Interest in the classics was promoted by Francesco Petrararch (1304-74) who worked on classical texts and wrote poetry in Italian and Classical Latin. The prosperous towns of fifteenth-century Italy became the centres of classical scholarship, which was pursued outside the universities and under the patronage of urban patricians interested in the civilization of the pre-Christian world. Through the residence of a Byzantine scholar, Manuel Chrysoloras (c. 1350-1415), Florence

became famous for Greek studies and Marsilio Ficino (1433-99) established an academy for the study of Plato's philosophy. The concentration on classical texts owed something to the medieval interest in Arabic translations of the ancients, but the textual scholarship of men such as Lorenzo Valla (1407-57), who used philological investigation to discover pure texts of the classics, was completely original.

In Italy, burgher patronage and the casual acceptance of a worldly Church meant that the new learning was predominantly secular. Patrons and scholars were fascinated by the achievements of man and came to believe that on his own he had real power to shape his own destiny. They looked back to a time in which human achievement had reached its peak - to the past of classical Rome. The new learning was named *humanitas* (humanism) by Leonardo Bruni (1370-1444), who wrote a *History of the Florentine People* inspired by classical models.

Since Italy was the centre of the Mediterranean trade routes the movement soon spread. Those fighting in the Italian

wars took back books to the court of Francis I (1494-1547), who encouraged the new scholarship. By the mid-sixteenth century the influence of Italian humanism on French scholarship was evident. French humanists such as Lefevre d'Étaples (1455-1536) and Guillaume Budé (1468-1540) [5] embarked upon etymological and philological studies of Greek and Roman texts and of their own institutions and codes of law.

The growth of printing

The printing press was another factor encouraging the rapid northward spread of Italian scholarship. Venice became a major centre for the printing of Greek and Latin classics and patristics. In conjunction with the scholars of Germany and The Netherlands, printers produced new editions of the classics [7] and works by the Italian humanists.

In The Netherlands and Germany, however, the influence of Italian humanism was tempered by the new devotional movements such as the *devotio moderna*. Gradually new ideas were admitted into the structure of medieval scholasticism and the Christian

CONNECTIONS

See also



1 The woodcut shows a lecture being delivered by Cristoforo Landino. Landino was one of the most widely read commentators on classical literature and a professor at Florence. His principal work was a study of Virgil and Dante; he also translated the works of Aristotle. Landino was much interested in politics. One of the circle of Lorenzo de' Medici, he believed in the freedom of the citizens in his *Disputationes Camaldulenses* (1475); he discussed one of the central questions of philosophical speculation, namely the relative advantages of the active as distinct from the contemplative life-style.



2 Prominent figures of the Florentine Renaissance pictured here often worked

in many cultural and political fields. Lorenzo de' Medici combined diplomatic

activity with artistic patronage and poetry. Francesco Guicciardini (1483-1540)

was a politician and historian and Michelangelo a poet, painter, sculptor and architect.



3 The rich library of Lorenzo the Magnificent (1449-92), grandson of Cosimo de' Medici who built the Bibliotheca Marciana in St. Marco, Florence, became a public library in 1571, housed in a building by Michelangelo.

4 The new humanist learning of the centuries of the Renaissance would not have had so much impact but for the invention of printing in the mid 15th century. The map shows those European cities that had sizeable printing presses between 1454

and 1494. By 1500 Italy had 73, Germany 50, France 45 and England only 4. Although the printing press was extremely important, secular literacy was still not very extensive until the spread of education during the Reformation.



ored by laymen and by the princes of Europe, who were growing in power and building brilliant courts and monuments to their prestige and authority. It is not surprising that many of the questions with which scholars concerned themselves were those of the ideal state, the model ruler, the best laws

The humanists believed that men could improve their condition and so encouraged speculation about politics, a speculation evident even in Erasmus writings and more obvious in those of Thomas More (c. 1478-1535) [8]. Claude de Seyssel of France and Niccolò Machiavelli (1469-1527) Scholars who regarded the classical past with interest and who employed new critical skills in evaluating evidence, looked to the new learning to build the future. As they adapted the models of the classics to a new and more vital vernacular literature, so they hoped to find in the past the blueprint for a better society. It was that spirit of optimism, a belief in the potential achievements of men, that gave the Renaissance its unique vitality.

In large part the new learning was spent



5 Guillaume Bude was the father of Greek studies in France and introduced the new sciences of philology and etymology. His critical study of Justinian's *Digest* a compendium of Roman civil jurisprudence, showed how the text had become corrupted over the centuries. Bude demonstrated to the French humanists how language and law as all institutions were affected by time and change.

B Erasmus of Rotterdam [B] more than any other scholar re-presents the humanist scholarship of northern Europe. He combined the Italian interest in the classics and textual scholarship with the

religious and devo-
tional movements of
The Netherlands. To
return to the Church
of the Apostles,
he worked to produce
a pure Greek text of
the New Testament
(A) in the hope of end-
ing religious dispute.



7 Editions of classical texts were produced in great numbers following the re-emergence of interest in the classics and the invention of printing. The diagram shows a survey of classical book production 1450-1600. Beginning in Italy, the editing of texts spread to France, Germany and England by the 16th century. That century's interest in Livy and Caesar gave way in the 17th century to a greater interest in Horus and Tacitus. Perhaps more than two million copies of classical texts circulated in Europe between the invention of printing and the year 1700.



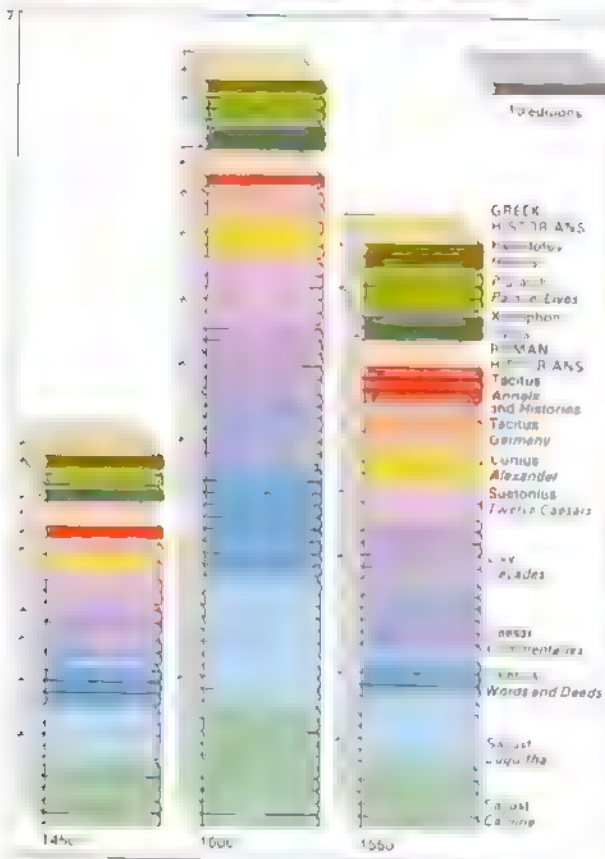
B A blueprint for the perfect republic
Utopia was presented by Sir Thomas More in 1516. It described the communal ownership of land, the education of men and women alike and religious toleration. As a humanist, More believed that all could by their own endeavours improve the quality of their lives. In particular humanists thought that learning would teach men how to govern and serve the commonwealth. Often they advised rulers at the court of Henry VIII the humanist Erasmus of Rotterdam advised the young monarch on social policy.



Renaissance intellectual life was characterized by a desire to emulate the scholars of Greece who had embraced all philosophical and rhetorical knowledge. The

Florentine academies were often modeled on those of

Plato and Aristotle who are pictured here engaged in animated discussion in a relief by Giotto (1266-1337, from the campanile of the Duomo in Florence)



Florentine art 1400–1460

The opening years of the fifteenth century in Florence were marked by costly and alarming wars, which the city survived somewhat luckily, and by political upheaval. These circumstances led to high taxation, the ruin or exile of several prosperous families and a great decline in the city's absolute wealth, but they also provoked a resurgence of patriotism, a consciousness of the city's cultural traditions and supposed Roman origin, and public competition between patrons.

The cathedral dome

The building of the dome [1] of the Florentine cathedral by Filippo Brunelleschi (1377–1446) symbolized the new condition of the city: it seemed the realization of an impossible civic dream, it was achieved by the study of medieval and Roman engineering, and inevitably it was compared with the greatest triumphs of Antique architecture. The dome is not classical in detail, except in its latest elements, the lantern and the four semicircular exedrae which act as buttresses round its drum, and it is characteristic that even these, formed as they are out of classical

pilasters, capitals, entablatures, scrolls and shell-niches, are not classical in function. Brunelleschi solved with extraordinary confidence the problem that remained fundamental to most later Renaissance architecture of applying the Antique formal vocabulary to building types of a new age. To some extent he was helped by the example of Florentine Romanesque architecture, notably the Baptistry and SS. Apostoli. His determined use of traditional local materials, a dark grey stone known as *pietra serena*, brick and whitewashed stucco, even coloured-marble facing, also meant that in their colours his buildings were much more closely related to the vernacular than to antiquity. The strong contrasts inherent in these materials gave his buildings very distinct articulation of their parts [8].

Florentine sculpture

Clarity of structure and evidence of intensive study of the Antique also characterize the mature sculpture of Donatello (1386–1466), whose "Saint Mark" (1412) [Key] made the first forceful statement *all'antica* (in imita-

tion of the Antique) – a statement about the nobility and gravity of man such as Cicero might have made, and in a language which revived that of Roman sculpture [2]. It was followed by a long series of saints and prophets which peopled the public buildings of Florence with heroic, alert and intensely personal beings, each an embodiment of a particular virtue.

Donatello's work is not dependent for its expressiveness on the beauty of craftsmanship and rich materials, in this respect he exemplifies an aesthetic revolution, enunciated in Alberti's essay *On Painting* (1435) which advocated a revival of the Antique standards of simplicity, even austerity, and eloquence. But Donatello's contemporary Ghiberti (1378–1455), a much less radical character, found an elegant compromise between Gothic ideals of beauty and the new style. A matchless craftsman, he won for this reason the competition (1401–2) for the first set of gilt bronze doors for the Baptistry; their design and details owed practically nothing to antiquity. But the second set – the "Paradise Doors" – are much more

CONNECTIONS

See also

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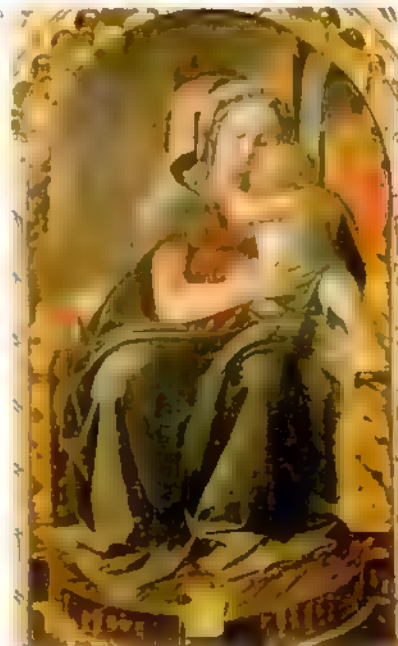


1 The Cathedral, Florence, was begun by Arnolfo di Cambio c. 1300. By the early fifteenth century construction had reached the octagon. Advice was sought in all directions for covering the 40m (130ft), opening before, in 1420 Brunelleschi's solution was accepted: a dome of double herringbone brick shells and stone ribs, which could be built without scaffolding. The dome was completed in 1436, and the lantern on top begun in 1446.



2 "David" by Donatello (c. 1435) was made for the Medici. Sensual and pagan, it was the first convincing revival of the canons of the classical nude. The head derives from a Roman "Antinous".

3 "Tribute Money" by Masaccio (c. 1427) is the dominant scene in a cycle of frescoes in the chapel of the Brancacci, S. Maria del Carmine, Florence, detailing the story of Peter. The series was begun c. 1424 by an older artist, Masolino. The subject was interpreted by theologians as one of the main proofs of the supremacy of the pope as Vicar of Christ.



4 "Terquinia Madonna" by Filippo Lippi (1437) was an early work, painted in tempera on panel, after a period of close imitation of Masaccio and a journey to north Italy. A knowledge of Flemish painting accounts for the informal, domestic treatment of the subject and the dark, rich colours.



lucid in design and participate in the revival in many ways, and in the conspicuous use of mathematical perspective, effectively a rediscovery of Brunelleschi's, they show where his new allegiance lay [7]

Florentine painting

Perspective was very quickly exploited by the youngest of the pioneers, the painter Masaccio (1401–28). It allowed him to place objects in apparently rational relationships in space, but he saw that the visual laws it expressed, when applied consistently, controlled not only the boundaries and intervals of space but also the drawing of forms to suggest three dimensions. The result was realism in a new sense, the realism of structure. But the same way of thinking, about space and form as unities, also led him to the first true pictorial light, unified and rational to the extent that shadow was its inevitable companion. In his "Tribute Money" [3] light as much as linear perspective produces a convincing reality. Like Brunelleschi, he was inspired by Tuscan tradition, particularly Giotto, and by antiquity, in his case a reper-

tory of realistic and expressive forms. His art has the same tone of austerity and moral seriousness as Donatello's.

No painter changed the course of his art in so short a life as Masaccio did. He simplified formal problems to make them amenable to laws, and some of his followers, such as Paolo Uccello (1397–1475), continued in this way, most, however, applied his discoveries to complexities more in line with both Gothic traditions and natural appearances. Fra Angelico (c. 1387–1455), indeed owed as much to the example of late Gothic painters such as Lorenzo Monaco (died 1424) Filippo Lippi (c. 1406–69) [4] and Domenico Veneziano (c. 1410–61) further modified the new style towards a descriptive naturalism, the former by responding to Flemish art, the latter by an intenser study of reality and especially of light. Domenico's "Saint Lucy Madonna" [9] represents the most advanced stage reached in Florentine painting by the mid-fifteenth century, and it exemplifies the dominant type of altarpiece – in a single rectangular, window-like frame then current.

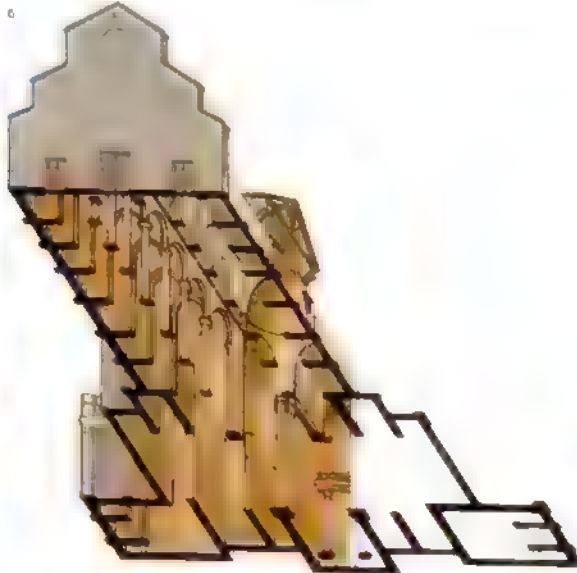


"Saint Mark", by Donatello (c. 1412) was made for the Weavers Guild for their niche on the guild hall. Orsanmichele Donatello imitates Antique statues not only in details, such as drapery folds, but also in the whole design. The balanced movement of the figure's structure (*contrapposto*) is expressed with clarity through and by the superimposed drapery, and there is no trace of the swinging posture and elegantly curved forms characteristic of late Gothic sculpture. The solemnity and intensity of expression is typical of Donatello, but his rugged simplicity is now exaggerated by the loss of gilt details and weathering.



5 The Palazzo Medici-Riccardi was built by Michelozzo c. 1444–60 for Cosimo de' Medici who had rejected a design by Brunelleschi as being too ostentatious. Michelozzo's design conforms

superficially on its exterior to the traditional Florentine merchant's house although a heavy classical cornice replaces the projecting eaves. Inside it has a splendid Renaissance arcaded court.



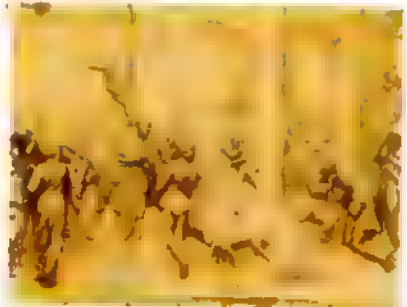
6 San Lorenzo by Brunelleschi was begun c. 1418 with the Medici Sacristy attached to the left transept. The church was largely funded

by the Medici family (Cosimo is buried under the central dome). Although the facade was never completed Michelangelo added

the New Sacristy to the right transept.

7 Solomon and Sheba by Lorenzo Ghiberti from the "Paradise Doors" of the Baptistry (1425–47) (gilt bronze) is one of ten Old Testament reliefs from the third set of doors (his second), all commissioned by the guild of business men who had responsibility for the Baptistry. The reliefs were modelled in wax and cast separately

chased to a very high finish and then set into a massive framework. A rich leafy border frames the opening. Ghiberti, one of the most notable figures of the early Renaissance, left Florence in 1400 but was recalled a year later to take part in a competition that led to his casting the Baptistry's second pair of doors.



8 The Pazzi Chapel, Santa Croce, Florence, was designed by Brunelleschi c. 1430 to be both the private chapel of a wealthy family and a chapter-house. The plan – a lateral domed rectangle with a smaller domed chancel, is a development of Brunelleschi's earlier Sacristy in San Lorenzo (1420–28). But the elevations articulated characteristically in dark *pietra serena* on white stucco are so much more logically composed that it is generally considered his most perfect building. The exterior is only partially to his design.

9 "Saint Lucy Madonna" by Domenico Veneziano (c. 1445) is an altarpiece of the type known as a *secre conversazione* which implies a close and in formal relationship, spatially and psychologically, between the Madonna and the saints. The single panel generally supplants the polyptych, but its hierarchical division is often preserved as here by a subtle design of painted architecture. The perspective construction is extremely sophisticated and the colour and light are exceptionally unified. A *predella* with five small narratives of the lives of the saints was formerly attached.



The Flemish Renaissance

In the years just before 1400 the two most vital artistic centres in northern Europe were far apart, in Paris and Prague, but the distance made strangely little difference because of a widespread style in court art known by two unsatisfactory but descriptive titles, International Gothic, or the Soft Style, which was also to be found in London and Lombardy. A new beginning sprang from a dynastic event, the union under Philip the Bold of the Duchy of Burgundy with Flanders. This north-south (Bruges-Dijon) axis brought together artists from Flanders, Holland and Germany to form a school that is conventionally called Flemish.

From naturalism to realism

The first phase of the patronage of the dukes of Burgundy was centred on Dijon. Philip the Bold (1342-1404) brought the painter Melchior Broederlam (died c. 1410) from Ypres and the sculptor Claus Sluter (died 1406) from Haarlem and Brussels. The main surviving work by Broederlam is the painted part of a very large altarpiece at Dijon. It is of a kind found all over northern Europe in the

15th century, from Burgundy to Poland and quite distinct from Italian traditions: the main part is polychrome and gilded wood sculpture with a highly wrought Gothic frame, which is enclosed by wings with painted narratives.

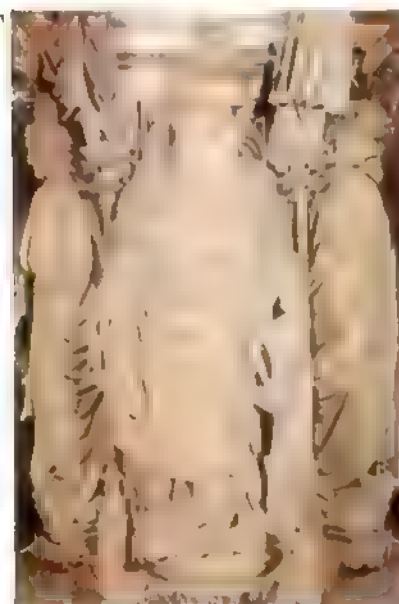
Sluter's greatest work was his last, the so-called "Well of Moses" (a Calvary group) in the Charterhouse of Dijon [1]; he developed a strikingly massive and lifelike style, which was to be a characteristic of Burgundian sculpture for a generation.

Philip also employed the most brilliant miniaturists of the time, the Limbourg brothers (from Nimwegen, trained in Paris), but it was for Philip's brother, Jean de France, Duc de Berry, that they made their most celebrated manuscript, the *Très Riches Heures*. The narratives in this book reflect the cosmopolitan, especially Italianate nature of French art at the end of the fourteenth century, but the calendar pages have a startling naturalism that is quite new. It is upon a firm tradition of panel painting, but newly inspired by sculptors and miniaturists, that the "Flemish" style is based.

The second phase of Burgundian patronage is centred on Bruges, the commercial and banking capital of the north, where Philip the Good (duke from 1419) and his chancellor Rolin employed Jan van Eyck (died 1441) [2] from 1426, the year in which Jan's brother Hubert died. The enormous painted polyptych "The Adoration of the Lamb" in the Cathedral of St Bavo, Ghent, seems to have been begun by Hubert and finished by Jan in 1432, and it was commissioned by a merchant. Jan also painted for churchmen, the bourgeoisie, courtiers and visiting Italians. His style, still more naturalistic than the Limbours' or Sluter's, was technically the most sophisticated and luxurious of its period [3], while not the first to use oil, he put it to great effect in obtaining strength and transparency of colour, closely observed descriptions of light and texture – as in the sheen on a pearl – and minuscule detail. A contemporary artist of almost equal importance, Robert Campin (c. 1375-1444), worked mainly in Tournai in a tougher, less refined style with strong, expressive and realistic effect, and this style was developed

CONNECTIONS

See also



1 Claus Sluter's
The Prophet Zachariah" (c. 1401) is one of six prophets round the base commonly called the "Well of Moses", of a Calvary group of which only fragments survive begun in 1395 for Philip the Bold. The figures were painted by Jean Malouel: such collaboration between major painters and sculptors was common in the 15th century when unpainted sculpture was the exception to the rule.

2 Jan van Eyck's
The Madonna of Chancellor Rolin" (c. 1435) was in the Cathedral of Autun, the home town of Nicholas Rolin, who was also one of the principal patrons of Rogier van der Weyden.



3 "The Arnolfini Wedding" (1434) is by Jan van Eyck. The signature states: Johannes de Eyck fuit hic", meaning "Jan was here" – that

is was witness to what is clearly a marriage – it is believed that the couple are Giovanni Arnolfini, a merchant from Lucca

and Giovanna Cenami. The picture is filled with appropriate symbolism: the marriage candle, a reminder of Christ's presence, the mur-

der, signifying purity, and the dog hidden on the back of the chair is of St Margaret, the patron saint of childbirth.

by his pupil Rogier van der Weyden (1400-64) [5], who established in Brussels the most important mid-century workshop

Enrichment of tradition

Exchange of artistic ideas between Italy and the Low Countries in the fifteenth century left the Flemings richly in credit. The three founders of the Flemish school were followed by a host of painters operating in the Low Countries in the second half of the century who enriched the tradition and maintained its prestige, but the Flemish "rebirth" also revitalized German painting, which for the first half of the century was in general an independent development from the Soft Style. The decisive change here came through the influence of Rogier, particularly upon Martin Schongauer (c. 1450-91) who worked mainly in the upper Rhine around Colmar. Schongauer was not only, as painter and draughtsman, the principal inspiration for Dürer, but also the first great engraver (from c. 1470) [Key], through this medium his influence was international.

German sculpture, by the end of the cen-

tury the liveliest of northern schools, was also transformed by Dutch influence, mainly through the activity in several German centres of Nicholas Gerhaert of Leyden (flourished 1463-73), who brought to the Gothic style a richer variety of surface through strong undercutting. The masters of this final quasi-Baroque stage of Gothic sculpture were the exuberant Veit Stoss [4] (c. 1440-1533, born Nuremberg but 1477-96 mainly in Cracow) who, typically worked as much in limewood and boxwood as in stone, and the more restrained Tilman Riemenschneider (c. 1460-1531).

Virtuosity in architecture

Architecture was far from conservative in this period. Builders pursued virtuosity and enormous scale in their work, as in a number of Netherlandish town halls, notably Brüssel (begun 1402). The most inventive results were in spectacular vaulting systems, above all in England, especially by delicate fan vaults [7], sometimes with pendants, and in Germany by ever more complex geometry of rib patterns.

KEY



Martin Schongauer's engraving of St Michael (c. 1475) is closely related in style to contemporary German wood sculpture. Schongauer regularly signed his work and is in fact the earliest northern engraver known by name. His work formed one of the major channels of northern influence on Italian painters such as Giorgione, while one of the earliest works by Michelangelo, the "Temptation of St Anthony" (c. 1490) was a painted copy of a similarly spiky, fantastic design Schongauer published more than 100 prints covering a wide range of sacred and profane subjects: their combination of rich invention and disciplined clarity makes them particularly attractive.

4 Veit Stoss's "The Archangel Raphael and Tobias" (1518-18) was commissioned for the Carmelite church in Nürnberg by a Florentine silk merchant, who undoubtedly chose the subject because in Florence Raphael was popularly the guardian angel of travellers. In this sculpture the natural beauty of the material is revealed and not covered by the usual polychromy and gold. It is one of the latest most vivacious works of Veit Stoss.



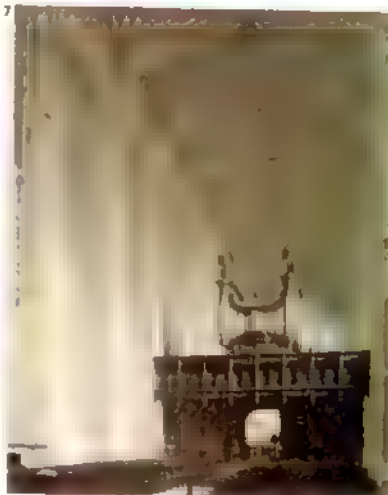
5 Rogier van der Weyden's "The Magdalen" (c. 1451) is the right wing of a triptych with Christ in the centre flanked by the Virgin and St John, painted for Jean de Braque. The triptych was made immediately after Rogier's return from Italy and the simplicity of style and sense of order may reflect his experiences there.



6 Hans Memling (c. 1440-94) a German pupil of Rogier, was from 1485 the most successful painter in Bruges, where he enjoyed an international clientele. Several of his portraits were of Italians, such as this one - "Portrait of an Italian" (c. 1480) and these pictures exerted considerable influence back in Italy. His landscape style was much imitated there. The sitter here may be a medalist but is more probably a collector.



7 King's College Chapel, Cambridge was begun for Henry VII in 1446 after interruptions the fabric was completed in 1515. The fan vault is the work of Henry VII's mason, John Wastell. Of all English fan vaults this is the most majestic and the most happily balanced between clarity and fineness of design. Although of massive construction its taut curvature and brilliantly resolved geometrical web of ribs, carved in relief, give an illusion of weightlessness. The screen dates from the 1630s.



Italian art 1450–1490

The stylistic revolution in Italy in the second and third decades of the fifteenth century had results that were in two crucial respects different from those that followed Duccio's and Giotto's achievements in the fourteenth century. First, the revolution's effects were quickly felt in almost all centres of any artistic importance; second, a profusion of artists of talent and imagination ensured that what followed was not reassessment, nor merely exploitation, but a continuing ferment of activity with a sustained momentum of exploration and invention.

Increase in secular patronage

One reason for this situation was the wider opportunity offered to artists in the second half of the century by a multiplicity of centres of patronage. These may be divided crudely into two types: on the one hand were the old nominal republics such as Florence and Venice, where a prosperous bourgeoisie with a patrician upper crust offered at least as much patronage as the state and, on the other, the petty principalities, such as Milan, Mantua, Ferrara, Rimini, Urbino and

Naples, where a confused mixture of despotism and ancient aristocracy tended to focus patronage on a centre such as a court often with pretensions, as that of the dukes of Burgundy. A long period of comparative peace made these courts – among them the special case of Rome – much more significant artistically after the mid-century, although they were never entirely separate.

A change in status

These opportunities for artists were augmented by a slowly, and subtly changing attitude to the status and use of works of art. This was the period in which the battle to promote the visual arts to the level music held among the liberal arts was in general won. And independently of any philosophical change of this kind there was more lavish investment in culture for culture's sake, so if artists were not painting more fresco cycles in churches than before, they were producing more paintings and sculpture for private enjoyment. The quantity of artistic objects in domestic settings was significantly higher at the end of the century than at the beginning.

The result of these changes in demand is in harmony with new possibilities of supply that arose from technical and expressive progress; in general terms there was a wider diversity in the forms and functions of works of art in the second half of the century. The bronze statuette and the portrait-bust, for example, became firmly established in this period. These two types illustrate a general phenomenon – the meeting of new and mostly secular demands by the adaptation of earlier and mostly religious forms. The small bronze of mythological or allegorical subjects followed a long tradition of statuettes of saints and the composition of the sculptured portraits is best explained by reference to the continuing manufacture of reliquary busts. The evolution of each type was stimulated by the collecting of similar objects from antiquity. Similarly, the new large-scale secular figurative paintings, which decorated princes' palaces and patricians' houses were made possible by the painters' experience of ecclesiastical art. Thus one is reminded in Andrea Mantegna's *Camera degli Sposi* in the Ducal Palace, Mantua (1473–4), of

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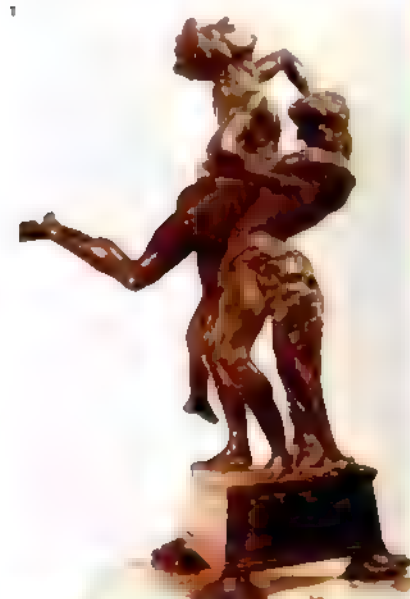
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1 Antonio Pollaiuolo's *Hercules and Antaeus*: a bronze statuette c. 1470–80 is similar in design to a small painting by Pollaiuolo (1429–98) on the same subject (*Virtue*) done for the Medici.

the bronze was also most probably in the Medici collection. Although it has a triangular base it is only intelligible from one viewpoint: the all-round view was first achieved by Verrocchio.



2 In Andrea Mantegna's fresco 'The Gonzaga Court' (c. 1470–74), Ludovico Gonzaga sits, surrounded by his family and court, receiving a

letter. There are similar scenes on a second wall, and the ceiling is painted as an illusion with a circular opening to blue sky.

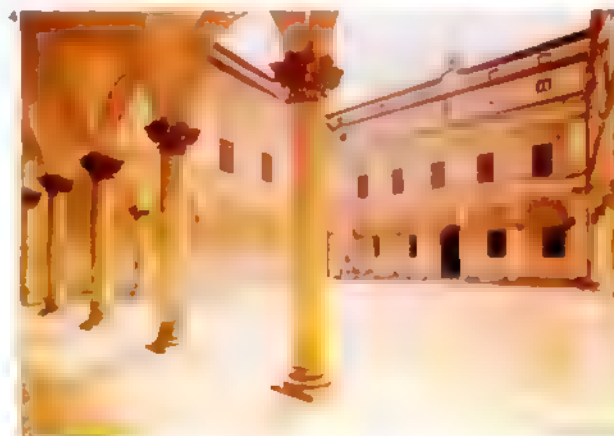
4 The courtyard, Palazzo Ducale, Urbino, was built 1464–72 by Luciano da Laurenza (fl. 1468–82) for Federico da Montefeltro (1422–82).

warrior, statesman, scholar and patron of the arts, later first Duke of Urbino. The broad proportions and subtlety of rhythm distinguish it from Flor-

entine courtyards: the whole palace is spacious, most refined in its sculptural decoration and placed so as to command a stupendous view.



3 Villa Medici, Poggio a Caiano (Florence), was begun c. 1482 by Giuliano da Sangallo for Lorenzo de' Medici and completed for Leo X c. 1520. The curved external staircase replaced the original one which comprised two simple ramps. Close to the roads in to Florence from the north, the villa was intended for receptions as well as the usual rural and summer pursuits; hence, probably its unusual size and formality.



religious narrative and in Sandro Botticelli's *Allegory of Spring* [5] of a madonna and saints. More rarely – although both Mantegna (c. 1431–1516) and Botticelli (1445–1510) provide important examples – secular compositions by artists during this period are inspired by classical sculpture.

Styles of architecture

Architecture shows that diversification by cross-fertilization works in both directions. Giuliano da Sangallo (1445–1516) and Lorenzo de' Medici (1449–92) designed at Poggio a Caiano [3] the first of the great Renaissance villas, for a life-style inherited from the Middle Ages and fortified by re-reading the ancients. Similarly, Giuliano's building is a blend of traditional big farm house and selected classical elements – externally, the arched basement (recalling an amenity Pliny described in one of his villas) and the applied temple-front, a dignifying feature with a great future in domestic architecture. Conversely, the principal source of inspiration for the church designs of Leon Battista Alberti (1404–72) was

a secular form, the Roman triumphal arch.

These architectural examples also illustrate the adjustment of newly enriched styles to what were enduring problems and it is only too easy to overstate the degree of change. Churches, tombs, altarpieces and so on were of course made as prolifically as before. The diversity of styles was as great as that of art forms and showed similar vigorous continuity and change, so that generalization is unusually difficult. But in architecture it may be said that style was characterized by a more exact, complex and literate knowledge of antiquity in sculpture and painting, on the other hand, typically in the work of the greatest sculptor of the period, Andrea del Verrocchio (c. 1434–88), or of the greatest painter, Giovanni Bellini (c. 1430–1516) [7] the antique was not the overwhelming inspiration it had been for their predecessors Donatello and Masaccio, but was replaced by the imitation of nature. Simplicity was superseded by complexity, austerity by refinement, and in these ways late fifteenth-century Italian art reflected the structure and values of its market.

KEY



Filippo Strozzi (1428–91), the most important Florentine

patron after the Medici, built a palace grander than theirs

This marble bust of him (c. 1485) is by Benedetto da Maiano

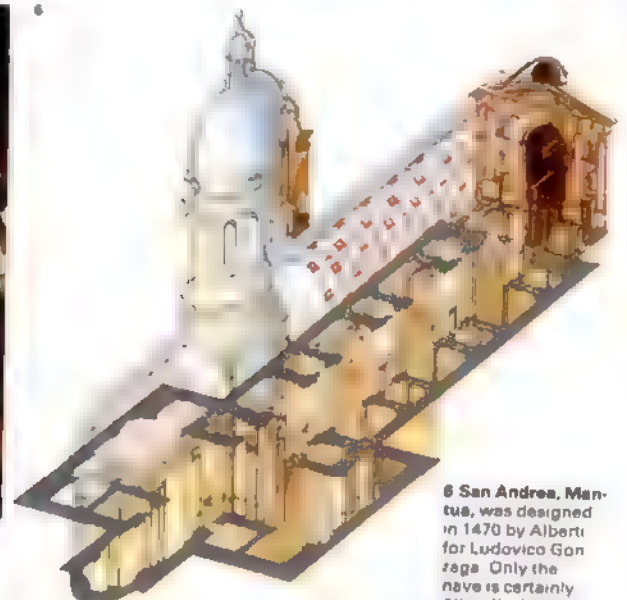


5 Sandro Botticelli's 'Allegory of Spring' (c. 1478) was painted

to be fixed above a couch in the town house of the young

cousins of Lorenzo de' Medici. The earliest secular painting

ings are generally either wall decorations or on furniture



6 San Andrea, Mantua, was designed in 1470 by Alberti for Ludovico Gonzaga. Only the nave is certainly Alberti's design



7 The 'Madonna and Saints' of Bellini in S. Maria dei Frari, Venice (1488), is characteristic of the artist's dignity and restraint, with especially refined description of light and resonant colour. It was painted when he was turning, in his later work, to simpler more monumental forms. The classically shaped frame is original

8 Andrea Verrocchio's Colleoni Monument commemorates Bartolomeo Colleoni who was condottiere of the Venetians. Verrocchio made his competition model for the monument in Florence and moved to Venice in 1483 to execute it. It was cast after his death (1488), by Leopardi who also designed the base



Florence and Rome: the High Renaissance

Historical events around 1500 seem in general once again to concentrate artistic activity in Florence, Rome and Venice and reverse the earlier tendency to diffusion among many centres. Foreign invasions and power struggles within Italy did clearly have a disastrous effect upon patronage in courts such as Naples, Urbino and Milan. Indeed, the presence of Leonardo (1452–1519) and Bramante (1444–1514) in Milan, and the ambitious patronage of Lodovico Sforza (1451–1508), might have made that city one of the artistic capitals of Europe, but for the French conquest of 1499. Leonardo then returned to Florence, where for six vital years he and Michelangelo (1475–1564) were in direct rivalry; they were joined in 1504 by Raphael (1483–1520) [6, 7] and successively by several younger men, notably Andrea del Sarto (1486–1530).

In Florence, too, there had been a political earthquake, but the expulsion of the Medici in 1494 and the formal revival of the republic (until 1512) in fact left a prosperous oligarchy in power and the new state institutions provided some of the greatest oppor-

tunities any Florentine artist had so far been offered, especially in the commissioning of two enormous battle-pieces from Leonardo and Michelangelo for the ~~new~~ council chamber (neither was finished).

Bramante and St Peter's

After 1499 Bramante went to Rome. His great opportunity came in 1506, when the energetic Julius II (pope 1503–13) [2] chose him as architect for New St Peter's, this building is unavoidably a symbol of the power and centralization of the spiritual Church, and for Julius its rebuilding was not so much a practical necessity as a gesture of regeneration. Bramante's plan [Key] expresses these ideals with majestic clarity and the piers of the crossing that he constructed established the colossal scale of the present building.

Michelangelo had already been in Rome; he returned to work for Julius, first (1506) on a projected tomb of a massive size and proximity of sculpture undreamed of since the mausolea of antiquity [4], and next (1508–12) on the painting of the ceiling of

the Sistine Chapel [1]. Before the Sistine ceiling was complete Raphael had decorated for Julius the first of the suite of rooms in the Vatican Palace, the Stanze, and the Stanza della Segnatura, painted with ideal examples of the faculties of the mind, was immediately followed by his Stanza d'Elodoro (1511–44), decorated very differently with dramatic narratives from Church history.

Pope Julius made Rome an artistic centre as important as Florence. He was succeeded by Leo X (pope 1513–21), son of Lorenzo de' Medici, his taste for the arts was more personal, more refined than visionary but many projects such as St Peter's and the decoration of the Vatican Palace and Sistine Chapel were continued. And artists enjoyed the patronage of cultivated members of the papal court and their bankers on a scarcely less lavish scale and far above fifteenth-century levels; this was a great period of palace building and urban redesign.

The architecture of the High Renaissance was not only Bramante's: the work of the Sangallo family is scarcely less important and Bramante's position at St Peter's and the

CONNECTIONS

| Work | Artist | Date |
|------|--------------|---------|
| 1 | Michelangelo | 1508–12 |
| 2 | Raphael | 1511–13 |
| 3 | Bramante | 1506–13 |
| 4 | Michelangelo | 1513–18 |



1 Michelangelo's painting of the ceiling of the Sistine Chapel in the Vatican was commissioned by Pope Julius II, who asked Michelangelo to paint the 12 Apostles. The artist, if we believe his account, said this was a poor scheme and was given a free hand. The principal figures, on the supports of the dome, are 7 prophets and 5 sibyls, representing revelation to Jews and Gentiles. Down the centre is a sequence of 9 Old Testament subjects, from the Creation (shown here) over the altar to the Drunkenness of Noah, illustrating an epoch of religious history not previously represented in the chapel. The first half was unveiled in August 1511; this second part was completed a year later.



3 Bramante's Tempietto in St. Peter's in Montorio, Rome, was built as a shrine over the traditional site of St. Peter's martyrdom. Bramante intended that it should be tightly enclosed in a circular courtyard. The design departs from classical circular temples in its high drum with windows between colonnades and dome.

4 Michelangelo's 'Moses' (1513–18), in St. Peter's in Montorio, Rome, was made for the tomb of Julius II. According to the second plan (1513) it was to be set fairly high up on the tomb. Its present setting, at floor level, is in a much reduced monument, a compromise reached after many frustrations, during the 1540s.

2 Raphael's painting of Pope Julius II

was executed between 1511 and 1513



leadership that this almost inevitably entailed, were inherited by Raphael. Michelangelo's career as architect began about 1516. All of these, as was normal in the Renaissance, were trained in some other art and this fact is yet another cause for variety.

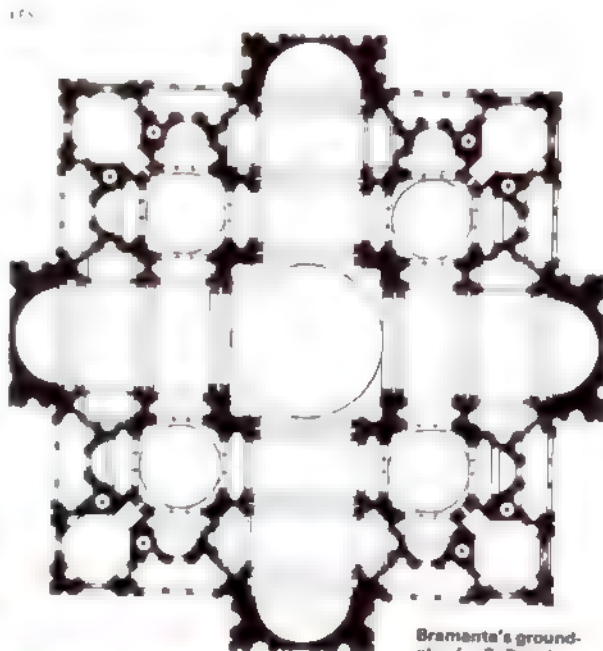
New intensity of feeling

A High Renaissance architectural style does exist, however: it is distinguished by total mastery, now, of the language of antiquity, by clean and measured design, by solemnity, mass and – increasingly – richness of materials. The units tend to be larger in proportion to the whole, the forms denser and more plastic than in the earlier Renaissance, and the same characteristics are found in painting and sculpture. Here, however, because figurative art offers a direct comparison with the norm of nature, the effect is, by artifice, superhuman. Figures move, with violence or deliberation, in postures that far exceed natural behaviour; in their heroic and idealized forms they appear a race of supermen. This style is eloquent, rhetorical with a new intensity of feeling.

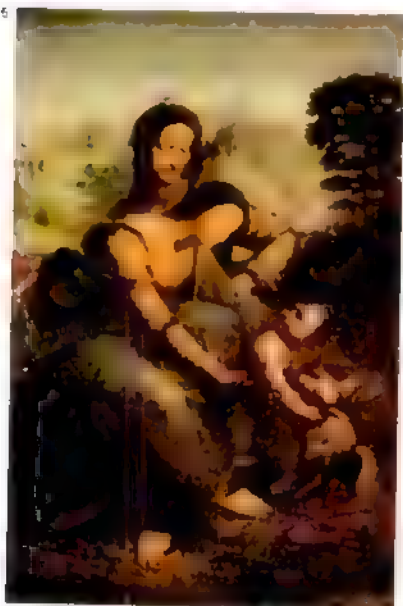
In painting, largely through Leonardo's example, a new range of dramatic effects, of action and of physical presence of form, was made possible by descriptive discoveries about light and atmosphere and especially by powerful and unified effects of tonal contrast (chiaroscuro). In all three arts drawing had a new role (again, this was largely Leonardo's doing); the quantity of preparation in drawing was greatly increased and exploration in drawing much more conscious, and these changes express the artists' ambition towards statements that are at once more considered and more novel.

The artist's status

The four principal artists were each personalities such as to change definitively the social position of the artist (Raphael lived in a palace designed by Bramante for a cardinal). And the maturity, the apparent perfection of their forms and the inventiveness of their compositions gave their works the status of classics. These artists earned the title Divine hitherto reserved for poets, and their style was to be labelled the Grand Manner.



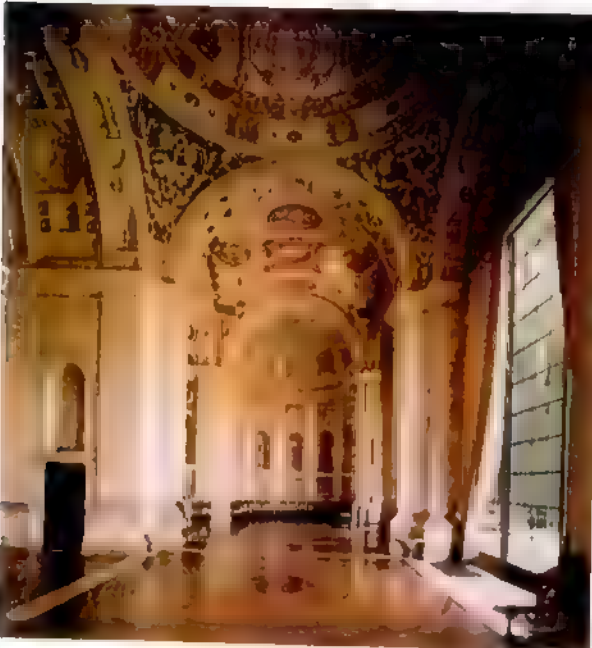
Bramante's ground-plan for St Peter's



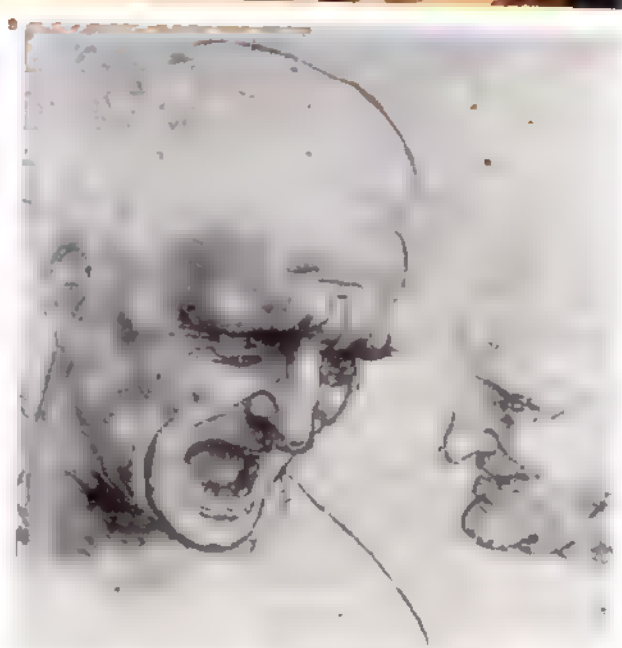
5 Leonardo da Vinci's "Virgin and Child with Saint Anne" (c. 1510) first appeared in a cartoon (now lost) shown in Florence in 1501. The composition was slightly different from this version.



6 Raphael's "Paul Preaching at Athens" (1515-16) was one of a set of ten coloured cartoons (of which seven survive) for tapestries made in Brussels, with which Leo X intended to complete the decoration of the Sistine Chapel. The weaving technique required that each scene, from the lives of Saints Peter and Paul, be designed in reverse. The surviving tapestries are in the Vatican.



7 Villa Medici, Rome, was designed by Raphael in 1517 for Cardinal Giulio de' Medici. This garden loggia, decorated after Raphael's death by his pupils, particularly the brilliant decorator Giovanni da Udine, is a rare example of form, function and decoration all imitating the classical.



8 Leonardo's "Heads of Warriors" (1503-4) is a detailed study of the expression of horsemen for the "Battle of Anghiari", a mural commissioned by the Florentine republic and never completed. It is representative of the new drawing techniques that were invented by Leonardo as part of an intensive preparatory process.

The High Renaissance in north Italy

Many of the opportunities and interests of Roman and Florentine artists around 1500 were shared by their contemporaries in northern Italy, but there too it makes no sense to think of the High Renaissance in terms of generations. Giorgione (c. 1475–1510), with whom a new phase of Venetian painting seems to begin, was outlived by the much older Giovanni Bellini

Transfusions of style

The legacy of Leonardo's most active periods in Lombardy (1483–99, 1506–8) was an assurance that north Italian artists would be as dedicated as any Florentine to forceful presentation and animation of all subject types, and there were continued migrations, in both directions, that were direct and even intended causes of style transfusions. The feeling – correct, in the medium term – that a Roman golden age had passed by the early 1520s dispersed Raphael's pupils, among them Giulio Romano (1499–1546), who fulfilled the ambitions of Federico Gonzaga [1] to make of Mantua a new Rome. And then the catastrophe of the sack of Rome (1527)

benefited several north Italian cities, notably Venice which acquired Jacopo Sansovino (1486–1570) [Key]

The Gonzaga family in Mantua and the Este family in Ferrara escaped the momentary eclipse that most Italian courts suffered around 1500 and continued their tradition of enlightened, if strong-willed, patronage. In such centres there was much local talent, but it is characteristic of a new situation that the major artists were employed at a distance. Titian (c. 1487–1576) in Venice or Antonio Correggio (c. 1490–1534) in Parma. This was briefly an artistic centre of the first importance not because of peculiarly favourable, temporary patronal conditions but rather because of the residence there of Correggio and Parmigianino (1503–40). Andrea Palladio (1508–80) in Vicenza exemplifies best of all the phenomenon of the great provincial artist. None of these, however, was provincial in the sense of artistic isolation, partly because distances are short across the roughly triangular area between the Apennines, the Alps and the Adriatic. In the sixteenth century this area was characterized

artistically by a large number of minor centres of activity – such as Bergamo or Bologna – whose fortunes fluctuated, and by the continuous dominance of Venice.

Venice offered civic and corporate patronage on an enormous scale in this period and in all the visual arts, in architecture the new library and mint commissioned from Sansovino [7] are outstanding examples. These new buildings, together with the old Doge's Palace, were decorated lavishly by painters and sculptors.

Sumptuous decoration

In general the style of Venetian decoration is individual in its sumptuousness and harmoniously interwoven complexity, festive as Venetian music of the same period [4]. Personalities have rarely been more important in defining the character of a city's art. Giorgione seems to have worked, immune to market pressures, within a restricted range of his own choice, and by focusing on particular problems, such as transient states of nature in the "Tempesta" [2] or the description of sentiment in portraits, enlarged rather as

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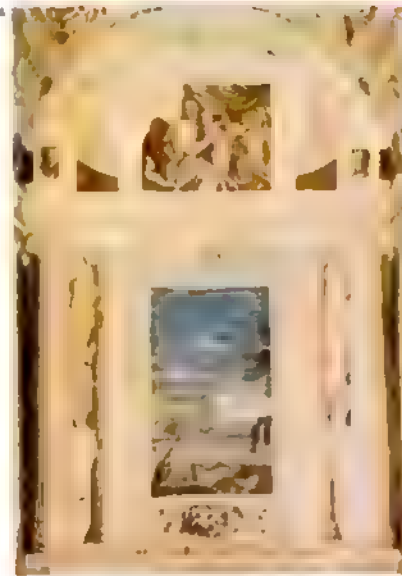


1 Federico Gonzaga, painted by Titian c. 1528, was the son of Isabella d'Este and spent his youth at the court of Julius II. He was an important patron of Titian's and introduced him to the emperor Charles V, whom Titian later painted. This portrait, in the relatively new three-quarter length format, set a fashion for including dogs: this one is probably a symbol of fidelity.

2 Giorgione's "Tempesta" (c. 1507) is one of the few attributions to Giorgione sustained by evidence. The subject has given rise to much speculation, perhaps Giorgione, inspired by the legend of the Greek painter Apelles painting the unpaintable – a thunderstorm – took this challenge as his main theme. The painting ranks among the earliest Western landscapes.



3 Palladio's Villa Rotunda was begun about 1560 in Vicenza. It is exceptional among villas for its perfect symmetry, designed to take advantage of the view from the hilltop site. The dome, a new feature in domestic buildings, surmounts a circular hall. The classical portico had appeared before at Poggio a Caliano, Florence, the Medici villa designed by Giuliano da Sangallo and completed in 1520 for Pope Leo X. The six-column porticoes on all four sides are an elaboration of Palladio's basic design.



4 Paolo Veronese painted the fresco decoration (c. 1562) in the Villa Barbaro, designed by Palladio. The villa is Palladio's most perfect blend of palace and farmhouse. Veronese was his ideal decorator. His illusionism takes amusing but slight liberties with the real architecture. Veronese's brilliant colour and realistic observations of landscape make the frescoes quite remarkable. Some have religious subjects – such as the "Marriage of Saint Catherine" seen here. Some are landscapes and others contain portraits of the owner's family, friends and servants.

Leonardo did the whole notion of what a work of art might be. Then Titian – very different, especially through the universality of his art – with a succession of masterpieces over a very long career kept Venetian painting concentrated on problems such as those of atmosphere and colour, dramatic expression and characterization [6], which tended to be neglected in central Italy. Titian, largely through patronage, became the most esteemed painter in Europe.

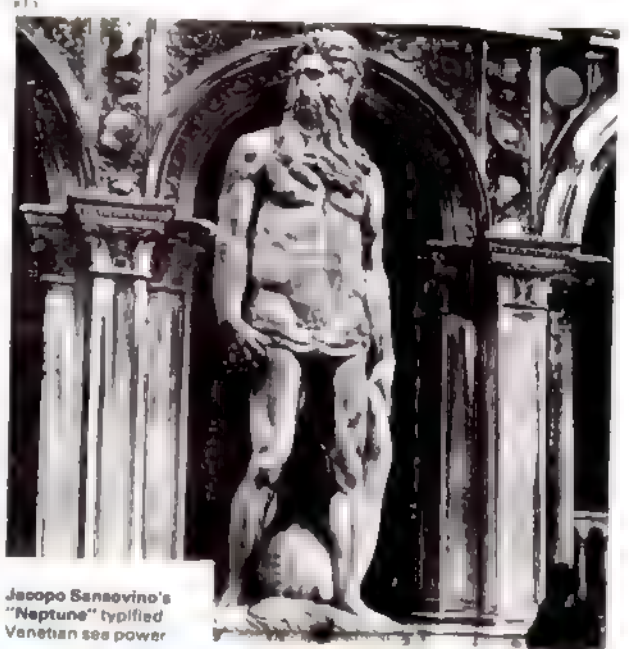
Correggio [5], whom Titian admired, was in some respects a yet more original artist and of all sixteenth-century painters he came nearest to a baroque style. His were the most advanced experiments with movement and emotion and – again following Leonardo's lead – he achieved through naturalism and immediacy a newly intimate relationship between works of art and their spectators.

Palaces and villas

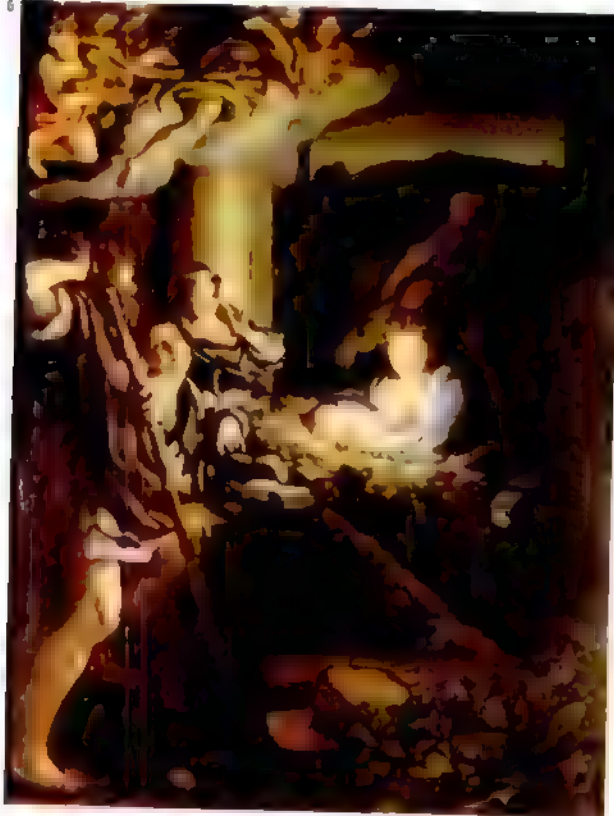
The other great "provincial", Palladio, has European stature for different reasons. Building activity generally gathered pace in north Italy from about 1525, especially in

civic and domestic fields. Giulio Romano, Sansovino and Sanmichele (c. 1484–1559), another transmitter of Roman experience especially to Verona, built palaces and villas, and Palladio was much indebted for his designs to their example.

The growth of villa-building in the period was extraordinary but natural; the patriciate, especially from Venice, tended to put their capital increasingly into land and wanted to live on their estates. Palladio's genius lay in a rare combination of theoretical equipment and flexible, common sense. Very practical by temperament and also imaginative, he could provide for a new clientele with widely varied aspirations and needs, a range of building types that became (partly through publication) almost definitive. They ranged from a thinly disguised farmhouse, the wings of which were barns, to an impressively spreading rural palace [3, 4]; and they fulfilled a social need no less perfectly by their evident use of classical building styles as a mark of social distinction. The architectural needs of gentlemen in Europe (and America) were met by two centuries of Palladianism.



Jacopo Sansovino's "Neptune" typified Venetian sea power



5 Correggio's "Adoration of the Shepherds" (c. 1520–30) is the outstanding example of the artist's illusionistic painting of light. The informal, eccentric design of this scene is calculated to make the spectator feel he completes the group.



6 Titian's "The Rape of Europa" (1559–62) is one of a set of mythologies painted for Philip II King of Spain and Emperor. Titian's principal patron in the later part of his career. The artist seems to have been free to choose his subjects.

8 Palladio's St. Giorgio Maggiore, Venice, was begun in 1566. This was Palladio's first church. Like many architects working in Venice he was inspired by St. Mark's to use columns in large numbers, but the interior is exceptionally light in colour, well lit and unadorned.

7 Jacopo Sansovino's Library of St. Marco, Venice, was begun in 1536. The site required a building filling the whole length of the Piazzetta, incorporating an arcade (as a public amenity, and to accommodate shops), reflecting that of the Doge's Palace which it faces.



St Michael slays a demon - late medieval French painting vividly expressing the straightforward view of good and evil as forces in conflict



The Tower of Babel
by Bruegel the Elder
the painting shows
the tower's
construction
which by tradition
was supervised by
Nimrod, the great
legendary conqueror
of Babylon in the
seventh century BC
In the detail below
he is seen dispensing
justice to a workman



The German and Netherlandish Renaissance

The fact that a visitor to the north would find the sixteenth-century style the height of technical competence and of political power. Albrecht Dürer of Nuremberg (c. 1471–1528) was one of the first northern artists to judge the Italian Renaissance achievement and the Antique itself, while he saw it first only in Venice. The greater part of his work was in woodcuts and engravings [Key 1], which he brought to an immense refinement of technique and capacities for narrative invention that made him the most imitated artist in Europe. The religious series issued for the popular market were more Germanic, more realistic in style, while the prints of humanist subjects, and the later panel paintings (from c. 1506), were more clearly of the Renaissance.

Grünwald and Holbein

A painter and draftsman of equal imaginative power and narrower range was Matthias Grünwald (c. 1480–1528), court artist to the archbishops of Mainz and Brandenburg, who is best known for his prodigious output for the baptism of

Isenheim, now Colmar (c. 1512–16) [4]. By expressive distortion, brilliant colour and technique, and extraordinary invention Grünwald painted with immense power.

A cooler, and much more cosmopolitan character was Hans Holbein the Younger (1497–1533), who was born in Augsburg, matured in Basel [2] and later worked in London. His thoroughly Germanic beginnings were transformed by knowledge, probably first-hand, of north Italian High Renaissance art, and also of French and Flemish art. His later work, especially in England, is largely portraiture, where he combines an Italian sense of form and composition with dispassionate observation of detail and texture. In England, too, he worked as court artist to Henry VIII and established a tradition of miniature portraiture painting. His principal native follower was Nicholas Hilliard (c. 1547–1619). German painting at the beginning of the century had another focus along the Danube between Bavaria and Austria. The major master of the Danube school was Albrecht Altdorfer (c. 1480–1538), who began at about the same time as Giorgione

(1475–1510) in Venice, to make paintings of which the main subject is landscape.

Painting in Flanders was centred on Antwerp, which supplanted Bruges as the commercial capital from about 1490. The founder of the Antwerp school was Quentin Massys (c. 1465–1530) who, like his German contemporaries, assimilated native traditions with Italian ideas. His collaborator Joachim Patenier (died c. 1525) was a landscape artist whose panoramic view of the world initiated a long Netherlandish tradition.

Rejection of local traditions

Massys had a group of followers whose complicated neo-Gothic figurative painting has the dubious label "Antwerp Mannerist". But in Flanders, and still more in Holland, a contrary current impelled by a rejection of local traditions (except of technique) in favour of Italian is labelled more sensibly Romanist. Chief among these were Scorel (1495–1562, Utrecht and Haarlem) and Heemskerck (1498–1574), and out of this school came a flourishing group of genre painters.

Netherlandish painting in the sixteenth

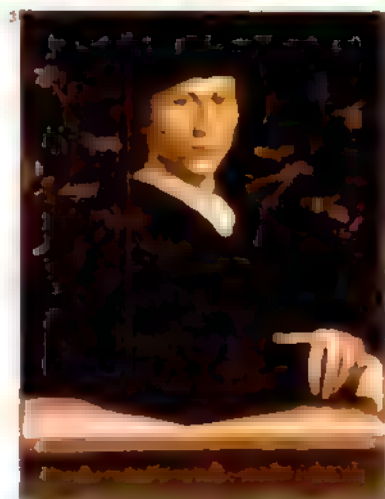
CONNECTIONS

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1 "SS Paul and Mark" by Albrecht Dürer (1526) was one of a pair of paintings representing the Four Temperaments, which the artist presented to the city of Nuremberg. The other painting followed SS Peter and John. Dürer combined the oil-painting tradition of the north, emphasising realism, with Italian monumental figural style. He was influenced by Botticelli, whom he had seen in Venice, and by the masterpieces of Raphael, probably known to him through the exchange of works.

2 Hans Holbein the Younger's "The Meyer Madonna" (1526) was painted for the Meyer family, a castle near Basel. It was painted immediately before Holbein's first trip to Italy. The painting shows a modified (about 1530) when Holbein added a Meyer's first wife. Holbein and the most accomplished painter of the north, Hans Holbein the Younger, was a Basel painter who worked in the north, and was a first wife. Holbein and the most accomplished painter of the north, Hans Holbein the Younger, was a Basel painter who worked in the north, and was a first wife.



3 "Derich Born" by Holbein was painted in 1533 on the artist's second London visit. Derich Born was a Cologne merchant resident in London. He was one of the many Germans Holbein painted for the Merchants of the Steelyard before his royal service.

4 Matthias Grünwald's "Resurrection" (c. 1512–16) is a wing of an enormous altarpiece from the Antonine monastery of Isenheim which shows, when closed the Crucifixion. On the first opening the Annunciation, Nativity and Resurrection are revealed; on the

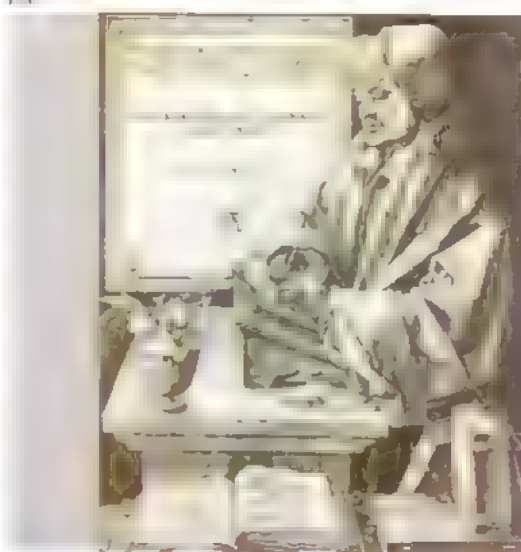
second opening the hermits Paul and Anthony and the Temptation of Anthony. The wings flank three carved wooden figures of saints. Grünwald rejected Renaissance ideas. The remarkable emotional intensity of his work is expressed in Gothic imagery.

century already has that character so familiar in the seventeenth of a bewildering quantity of minor masters but few of real stature. Two however stand out: Hieronymus Bosch (c. 1450–1516) and Pieter Bruegel the Elder (c. 1520–69). Bosch, who worked in apparent isolation in Brabant, was active well before 1500, but about that date began to enjoy European patronage (such as that of Philip, Archduke of Austria). His peculiar fantasies, based on popular proverbs and vernacular visual imagery, are moralistic comments on the human condition [6], and to him is to be traced a fluid transparent panel-painting technique continuous down to Rubens. Bruegel was one of the links in this tradition, but he looked still harder at nature and its seasons [5], at social classes, and enriched the content of secular painting.

Sculpture and architecture

A Renaissance style in sculpture began in south Germany around 1520, especially at Innsbruck and Augsburg, the exceptional Apollo Fountain at Nuremberg [8] by Pieter Flötner (c. 1493–1546) is clearly part of the

legacy of Dürer's Renaissance and begins a series of remarkable south German fountains ending with those of Hubert Gerhard (c. 1550–1620). Antwerp was the other main centre of northern sculpture and the training ground of Gianbologna (1529–1608), who spent most of his career in Florence. Buildings in a true Renaissance style are isolated freaks: they include the Fugger Chapel at Augsburg (1509–18), the Chapel of Sigismund at Cracow (1517–33) and the Castle of Breda (begun 1536), the last two by Italians. Clumsy imitations or superficial applications of Italianate detail are more common. A distinctively northern decorative style, spreading from England to Poland, is based upon the Mannerist engravings of the Antwerp school (particularly Cornelis Floris [1514–75]), with strapwork, scrolls and grotesque masks. But the most interesting architectural developments were in large functional and stylistically unselfconscious buildings with many windows among the civic architecture of German towns such as the Rathaus at Bremen [7] and houses such as the Longleat and Hardwick in England.



Albrecht Dürer's engraving 'Portrait of Erasmus' was

born in 1526. Desiderius Erasmus (1466–1536), was the most

important figure in north European Renaissance humanism.



5 Pieter Bruegel the Elder's 'The Corn harvest' (August, 1565) is one of an incomplete set of Months of which three more are in Vienna and one in Prague. They were apparently painted as part of the decoration of a house in Antwerp. Rubens was later to paint this type of landscape.

6 Hieronymus Bosch's 'Hell' (c. 1500) is the right wing of the 'Garden of Delights' triptych. The left panel shows the Creation. With the wings closed one sees a near monochrome, the Flood. Bosch's macabre fantasies seem to be meditations on the follies of mankind and their results.



7 Bremen Rathaus was built in the 15th century and is mainly Gothic in style. Its façade was later re-built between 1609 and 1614 by a Flemish architect and it includes many characteristic features of Renaissance civic architecture. The high pitched roof and the stepped gables show a strong Flemish influence while the round headed arcade and the decorative

panels are typically Italian. Civic building during the 17th century flourished illustrating the wealth and pride of the expanding commercial centres in northern Europe.

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8 In the Apollo Fountain (1532) by Pieter Flötner the figure is about half life size and at this early date is unique in northern sculpture for its classicism. This is partly based on Dürer's research into the ideal proportions of the human body (as in his Adam and Eve engraving, 1504) and partly (presumably) upon Flötner's own experience in Italy where he may have seen the Apollo Belvedere in Rome. Flötner's work precedes all the known Italian examples of this pyramidal type of fountain with sea monsters and putti positioned around the base.

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The French Renaissance

The origins of French painting and sculpture of the fifteenth century have much in common with those of Burgundian and Netherlandish art: indeed, artists such as the Dutchmen Jean Malouel (died 1415) and the Limbourgs worked for both French and Burgundian courts. French painting, however, was rooted in a lively tradition of miniature painting, especially in Paris, which was also one of the main centres of the International Gothic style [1].

Naturalism and simplicity

Inspiration for a new beginning came from two directions: Italy and Flanders, and the most important artist concerned was Jean Fouquet (c. 1420–80) [2], who was in fact in Rome c. 1446–50. The combination of the new naturalism of the north with the simplification and lucidity of form and space of the south is without parallel in the mid-century. Fouquet, who appears to have been the principal artist of Charles VII (1403–61) and Louis XI (1423–83), worked as a panel painter and miniaturist in Tours and Bourges, and other artists connected with the

court, such as the Master of Moulins (Jean Hey) [3], worked in this part of the Loire valley, then favoured by the royal household. There was also, however, a very active school in Provence from about 1440, the painters being sometimes more inclined to a Flemish style (Nicolas Froment [c. 1450–90] for example) and sometimes to an Italian (Tinguerrand Quarton).

French sculpture of the fifteenth century was mainly the product of regional schools pursuing the Gothic style into its last naturalistic stages, and the chief new stimulus was provided by Claus Sluter (fl. 1390–1406) in Dijon. However, Michel Colombe (c. 1430–c. 1512), who shared royal patronage and even commissions with Fouquet, was perhaps as outstanding a figure, almost all his works have been destroyed and those that survive, such as the transitional Gothic-Renaissance tomb of François of Brittany at Nantes (1499–1507, partly by Italian assistants), are amongst his last works. Architecture is generally most original in secular genres: châteaux and great town houses such as the Hôtel Jacques-Cœur at Bourges

(1444–51) or the Hôtel de Clugny in Paris (begun 1485), in such buildings there appear elements of planning that were to recur in the great châteaux of the next century, broad courtyards, external staircases, round towers, steep roofs and rudimentary galleries.

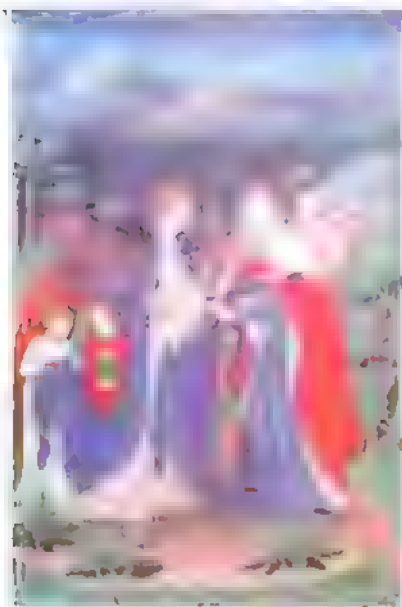
Culture from conflict

The reinvigoration of French art from about 1500 was mainly the result of the successes of Charles VIII and Louis XII in military raids into Italy in 1494 and 1499, culturally the French became subject to Italy overwhelmed by the cultivated Renaissance they met in Florence, Naples and Milan. The beginnings of an Italianate court were made under these kings. The earliest well-documented (but imperfectly surviving) product is the Château de Gaillon (1501–10) built and decorated, in part by Italians, for the Cardinal Minister d'Amboise. But this Italianism became a programme under Francis I (reigned 1515–47), who visited and admired Italy and attracted to his court Italian poets, musicians and artists (among them Leonardo). Later it was secular

CONNECTIONS

See also

1500–1550
The French Renaissance
The Italian Renaissance
The Northern Renaissance
The English Renaissance
The Spanish Renaissance
The Portuguese Renaissance
The Dutch Renaissance
The Flemish Renaissance
The German Renaissance
The Swiss Renaissance
The Austrian Renaissance
The Bohemian Renaissance
The Czech Renaissance
The Polish Renaissance
The Lithuanian Renaissance
The Hungarian Renaissance
The Romanian Renaissance
The Serbian Renaissance
The Croatian Renaissance
The Slovenian Renaissance
The Macedonian Renaissance
The Bulgarian Renaissance
The Greek Renaissance
The Turkish Renaissance
The Persian Renaissance
The Arab Renaissance
The Indian Renaissance
The Chinese Renaissance
The Japanese Renaissance
The Korean Renaissance
The Vietnamese Renaissance
The Thai Renaissance
The Burmese Renaissance
The Cambodian Renaissance
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The Siamese Renaissance
The Burmese Renaissance
The Thai Renaissance
The Vietnamese Renaissance
The Cambodian Renaissance
The Laotian Renaissance
The Siamese Renaissance



1 'The Visitation' from the *Boucicaut Hours* (c. 1405) is a narrative scene surrounded by a foliate border. The soft, convoluted drapery typifies International Gothic, but the landscape looks forward to Van Eyck's naturalism.

2 Jean Fouquet's *Etienne Chevalier and St Stephen* (c. 1452) is the left half of a diptych that stood over the tomb of Chevalier at Melun. The right half of the work shows a Madonna with angels; the donor's patron saint

was thus seen to be recommending him to the Virgin's mercy. Chevalier was one of the most important of Charles VII's courtiers and for him Fouquet made a book of hours. This work also reveals the virtuosity of his per-

spective and classical plastered back grounds – clearly the fruits of his recent Italian journey. But few contemporary Italians were so advanced and Fouquet's realism derives more strongly from his roots in Flemish art.

3 Master of Moulins' *'Madonna'* (c. 1490) was influenced by the Fleming Hugo van der Goea as much as by Fouquet. The artist was probably the Dutchman Jean Hey, court painter to the Bourbons in Moulins, hence his title.

building that dominated French art for a century, as the monarchy and its dependants provided themselves with settings in the new style, adapted, naturally to social and climatic conditions quite different from those in Italy and retaining features characteristically French, such as the gallery.

The earlier of Francis's own surviving buildings – a wing at Blois and the Château de Chambord [6] – are transitional and Italian detail is grafted on to local forms, sometimes with bizarre results, as among the half-flamboyant, half-Renaissance chimneys and dormers on the fantastic roof of Chambord. But all traces of Gothic have disappeared in the new buildings at Fontainebleau, begun for Francis in 1528 by Gilles Le Breton [7] and completed in the 1560s by Primaticcio. The result cannot, of course, be mistaken for an Italian building – its steep roofs and dormers preclude that – but by about 1530 a genuinely French Renaissance style is established, by far the most mature outside Italy. French architecture maintained this position under the leadership in mid-century of Philibert de l'Orme (c. 1510–70) [4] and

Pierre Lescot (c. 1510–78) [5], the chaste cerebral style of the former seems from the standpoint of later centuries the foundation of the French classical tradition.

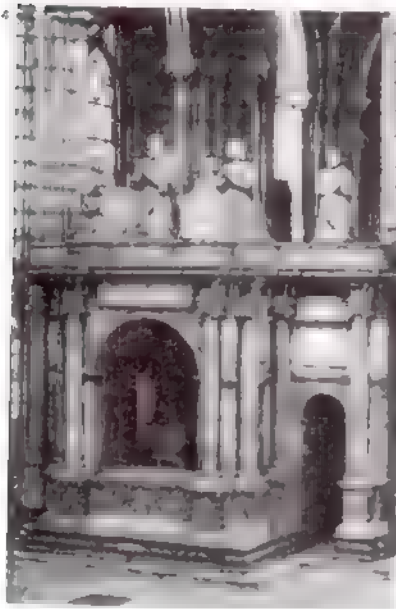
The School of Fontainebleau

The royal court was so much the focus of activity in painting and sculpture that "the School of Fontainebleau" is a title that adequately covers the most striking developments in these arts. Again the presence of Italians summoned by Francis I was crucial: Rosso Fiorentino (1495–1540) and Francesco Primaticcio (1504–c. 1570) among the painters, Benvenuto Cellini (1500–71) among the sculptors. As it happened there was far more native talent among the sculptors than among the painters: Jean Goujon (c. 1515–62) and Germain Pilon (c. 1535–90) [Key] treat the human figure with grace and competence to match any Italian, save Michelangelo alone. The School of Fontainebleau, which was also strong in engraving and metalwork, was to become, from 1530, one of the most influential centres of Mannerism in the North.

KEY



"Diana", attributed to Pilon (c. 1560), is from a fountain of the Château d'Anet.



4 The tomb of Francis I in St Denis, Paris, was begun in 1547 by Philibert de l'Orme. The form of a triumphal arch symbolizes the triumph of life over death, as in Italian tombs. The couple are presented within the tomb as dead and on top of it as alive, praying. The sculptor was Pierre Bontemps.

5 Pierre Lescot's Cour Carrée of the Louvre was begun in 1546. Francis I's rebuilding of the old Louvre (from 1527) was a sign of the return of central power to Paris after a century's absence. Lescot collaborated here and elsewhere with the sculptor Goujon, for whose reliefs there are Italian precedents.



6 Château de Chambord was begun in 1519 and its architect was probably Domenico da Cortona, although the only real traces of Italian plan-

ning are in the cruciform keep. Otherwise the overall design is characteristic of French medieval châteaux. It was built for Francis I.

7 The Cour Duile of the Château de Fontainebleau (begun c. 1530) was added by Gilles Le Breton to the medieval hunting lodge of Francis I.

The upper triple-arched opening on the left was originally approached by an exterior staircase. The domed gateway was added c. 1640.



Mannerism

The High Renaissance style in Florence and Rome had been in many ways artificial, most obviously in its grace, idealism and tendency to exaggerated posturing. The achievement of the major artists was a perfect style, or so it seemed, and the pursuit of perfect style was to become an end in itself. The phase so characterized is called Mannerism (from *maniera*, Italian for 'style').

Qualities of style

Artifice was not the only quality of style felt worthy of further cultivation. Novelty, licence, variety and the esoteric were appreciated in the sixteenth century – in the criticism of Giorgio Vasari (1511–74), for example – as never before and the demonstration of artistic genius was thought a legitimate object in a work of art. This demonstration could become the work's true subject. Mannerism was a late Renaissance style and it was important that all the beliefs on which it was based could be justified by selective reading of ancient authorities. But the surviving monuments of antiquity were studied in a new spirit, paying particular

attention to licence, complexity and grace. In northern countries the appreciation of similar qualities in late Gothic art facilitated the reception of the new style, but Gothic as such was held in contempt and what was supplied was of classical breeding.

The phenomenon of Mannerism did not occur everywhere – Venice, for example, was almost immune – and its arrival was never marked by a sharp break but by a shift of emphasis. Qualities such as grace appear in many stages in Renaissance art and were generally subject to inflation across the period, in some centres, as art looked inward at itself and not outward at nature, an extra twist of the spiral produced hyperinflation. This first happened in Rome, and perhaps it had already happened by 1520 in the work of Raphael and Michelangelo.

Artistic conditions in Rome soon after 1520 were ideal for the growth of Mannerism. A brilliant group of young artists, the pupils of Raphael, Florentines such as G. B. Rosso (Rosso Fiorentino, 1494–1540) and Benvenuto Cellini (1500–71), and north Italians such as Girolamo Parmigianino

(1503–40), were impelled towards the display of virtuosity by their own competitive situation, by the qualities of the last works of Raphael (died 1520), and by the current work of Michelangelo (1475–1564). The latter's drawings were rich in invention, his sculpture suave and refined away from the natural, his architecture increasingly more marked by licence than by rule [2, 3]. The dispersal of this group had begun before the sack of Rome in 1527, but that event was directly effective in the spread of Mannerism through Perino del Vaga (c. 1500–47) to Genoa, through Parmigianino to Emilia, and through Rosso, eventually, to Fontainebleau. Furthermore the Mannerist style was unusually accessible because so much of it appeared in engravings.

Medici patronage

In Italy the most impressive Mannerist in the 1530s, if Michelangelo is excepted, was certainly Parmigianino, first in Bologna and then in Parma. His 'Madonna with the Long Neck' [4] is one of a number of religious works whose spiritual message is less obvious

CONNECTIONS

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| 1 | Rosso Fiorentino's section of the Galerie François I ^{er} (1535–8) in the Château de Fontainebleau is one of 12 bays in the gallery, each different in general, the subjects appear to be allegories of the reign of Francis I. The central fresco here – one of those most likely to be by Rosso's own hand – is the 'Death of Adonis', which may refer to the death of the dauphin in 1536. The salamander above is the king's personal emblem. A similar mixture of painting and stucco – Roman and Florentine ideas – was used by Primaticcio. |
| 2 | Michelangelo's Porta Pia, Rome, begun in 1561, is a fine example of Mannerist licence. There are no true capitals and the pseudo-capitals are fragments of an architrave topped by the guttae of a frieze. |
| 3 | Michelangelo's 'Victory' (c. 1527–8) was designed to stand in a niche in the lowest zone of the tomb of Julius II to be flanked by a pair of slaves. The continuous spiral movement of the figures is known as the <i>figura serpentinata</i> (snake-like figure) which Michelangelo is said to have thought most perfect. |
| 4 | Parmigianino's 'Madonna with the Long Neck' (1534–6) was painted for Elena Bardi, for a church in Parma. The subject refers to St Helen's vision of the Cross, represented in the crystal vase. All the figures react to this vision: the Virgin by seeing in the child across her knees a prefiguration of the Passion. The column is a symbol of the Virgin's purity. The content is comparable to that of an altarpiece by Correggio (c. 1494–1534) but the ecstasy seems more stylish than expressive, and strikingly elegant in form. |

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than their elegant forms, rhythmic grace, refinement of detail and airless, unreal colour. After 1540 Florence became the most vital Italian centre and remained so until the early seventeenth century under the patronage of the Medici dukes. Cosimo I (1519-74) assembled a team of highly talented artists: the painters Salviati (1510-63) and Il Bronzino (1502-72), the sculptors Cellini [Key] and Bartolommeo Ammanati (1511-92), and the architect Buontalenti (1536-1608). To this court and its new nobility was attracted, in about 1560, the one really great artist who worked wholly in the Mannerist style – the Fleming Gianbologna (1529-1608). No sculptor's work has ever been so suavely complex, nor made so purposefully to be admired for its art. He brought the bronze statuette to perfection, but partly in emulation of Michelangelo, worked also on a large scale in marble [5, 8].

It is natural that a style that tended to preciousness and rested upon technical accomplishment should flourish in metalwork and jewellery. Cellini, whose gold saltcellar was completed for Francis I, was the most famous

goldsmith of the period, but the richest concentration of talent was in south Germany in the second half of the century [6].

Northern centres

Centres of Mannerism in the north were mainly, but not exclusively, at courts, and the first of these was at Fontainebleau. There, from about 1530, the decoration of Francis's new château was emphatically Mannerist and very influential (for example, in England). The principal artists there were Italian – Rosso and Primaticcio – and their main work was the Galerie François I^{er}, an exuberant mixture of stylized allegorical painting and complex stucco relief [1] where first appeared the universal currency of Mannerist decoration, strapwork (ornamental strap-like bands). Around 1600 the last vital centres of Mannerism were in Holland (the school of Haarlem) and at the court of Rudolph II at Prague, where the Flemish painter Bartholomäus Spranger (1546-1611) and the Dutch sculptor Adriaen de Vries (c. 1548-c.1626) produced decadent, erotic art of the highest order.

KEY

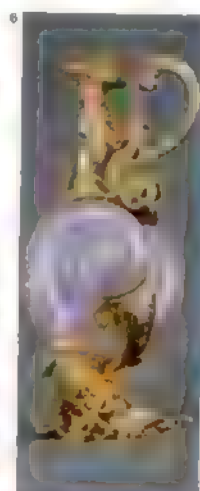
Cellini's bronze bust of Duke Cosimo of Florence was made between 1545 and 1547. Cosimo was a Medici who was created Grand Duke of Tuscany in 1569. He was a great art lover and Cellini's patron.



5 Gianbologna's "Astronomy" (c. 1573), is one of the most highly finished of this artist's statuettes and was made to be turned round in the hand so that the brilliance and variety of its composition could be admired. From any angle the forms make a balanced and complicated design, each one different. In his work Gianbologna took a characteristic aspect of the 16th century – making art

for connoisseurs to its logical conclusion. He believed that the subject was of no particular significance, the figures being chosen to give scope to the science and accomplishment of art.

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6 Wenzel Jamnitzer's ewer (c. 1570) is made of silver gilt, enamelled and inlaid. Vases of surprising fantasy in bronze and silver survived from the Roman Empire. Thereafter the creation of more witty and complex tableware was a main Mannerist preoccupation. Jamnitzer (1508-85) used casts of real animals

7 Bartholomäus Spranger's "Venus and Adonis" (c. 1590) was characteristic of the taste of Rudolph II and his court at Prague, where there was an unusual interest in all things strange and improbable. Spranger was a cosmopolitan artist trained in Antwerp, Paris, Parma and Rome, who exercised great influence in the

last stages of Mannerism through his engraving Goltzius. In general he gives the impression of being a stylist as absurd as his subjects.

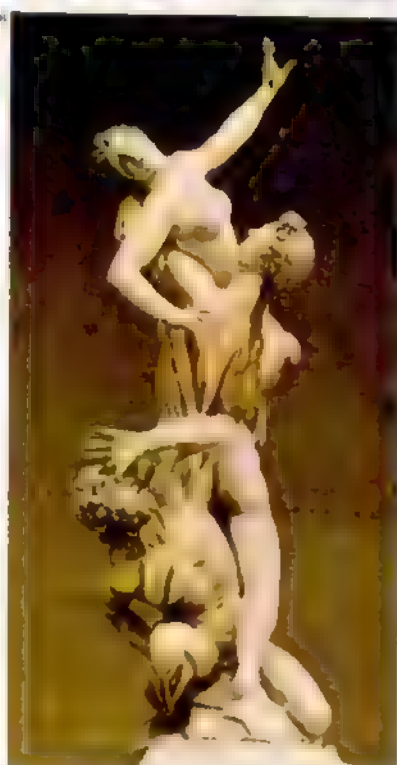
last stages of Mannerism through his engraving Goltzius. In general he gives the impression of being a stylist as absurd as his subjects.



8 Gianbologna's "The Rape of the Sabine" (1582) seems to have been made without the artist having in view a subject, a situation, a plot, but only the intention to

show the world that, contrary to rumour, he could work as well on a colossal scale as on a small one. He believed that he

had made his task as difficult as possible by multiplying the figures and by varying their age and sex. This was a statue was a record when the work was as large



The Tudors and the new nation state

When Henry Tudor (1457–1509) [1, 2] took the English Crown from the last Plantagenet king on 22 August 1485, he became master of a rich kingdom. Its fertility and its mineral wealth appeared to a Venetian observer of 1500 to be 'greater than those of any other country of Europe'. Its trade in the northern and western seas was increasing rapidly, and its population was slowly growing. Yet the monarchy itself had minimal prestige, ruined by the mental incapacity of Henry VI (reigned 1422–61, 1470–1) and the confusion of the Wars of the Roses.

The establishment of the Tudor dynasty

In 1485 few estimated that Henry VII's new dynasty would last long. Henry had to earn respect. There were potentially dangerous challengers to his throne: Simnel Lambert (c. 1475–1525), who pretended to be the imprisoned Earl of Warwick (the last male Plantagenet) and who momentarily won over Ireland, and Perkin Warbeck (c. 1474–99) whose claim to be Richard of York the younger of the princes murdered in the Tower, was taken up by many European

rulers. Henry survived partly because of his prudent statecraft, but primarily through the desire of all classes for firm leadership and an end to political uncertainty.

Henry is said to have introduced a 'new monarchy', but actually it was no more than the new life breathed into traditional institutions by a strong personality. Although parsimonious, he understood the value of ceremony [2] and pageantry [4] and his court impressed foreigners. Behind this façade lay the increasingly solid support of most of his subjects. The old nobility, weakened but not extinguished by the civil wars, was happier with a subordinate role than before. Henry treated most of these families with respect: he passed the Statute of Livery and Maintenance in 1487 against keeping private armies, but it did not seriously affect their retinues or their local influence.

The king rested his power upon the traditional rulers of the counties, the gentry as justices of the peace; he gave them stronger authority than before and framed his policies with a careful eye on what they would accept. In particular, he emulated Edward IV

(reigned 1641–70; 1471–83) in a policy of peace and therefore low expenditure: he avoided straining the loyalty of the gentry with extensive taxation [3]. The main achievement of Henry VII was to nurse the monarchy back to its traditional role of leadership by avoiding serious confrontation with any group of subjects.

The court of Henry VIII

Henry VIII (reigned 1509–47) [Key] was the first Prince of Wales to succeed peacefully since 1422. Far more obviously than his father, the second Tudor king was a typical Renaissance prince: well educated, polyglot, author of a sprightly theological work against Luther, accomplished on lute and harp, a jousting and a bowman, combining magnificence with intellectual power and political will exactly as the age demanded of its rulers. His court was a centre for the new learning: his ministers Richard Fox (c. 1448–1528) and Thomas Wolsey (c. 1475–1530) [6] were great patrons, and his later chancellor Thomas More (c. 1478–1535), embodied more than any contemporary Englishman the

CONNECTIONS

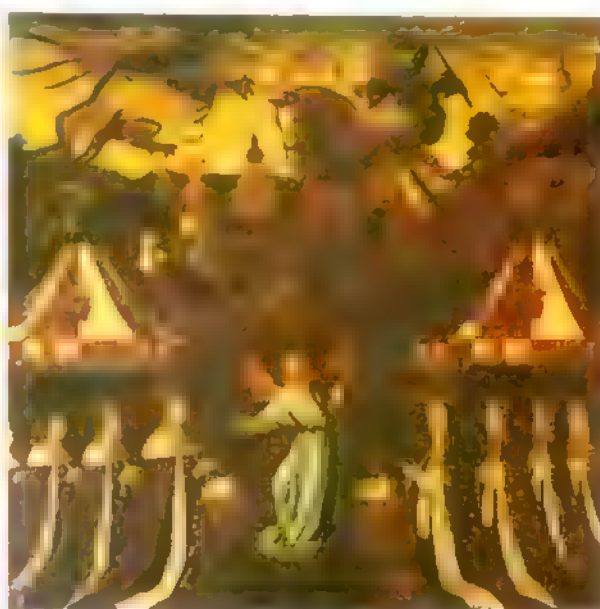
See also
The English
Renaissance
The Tudor
dynasty
The English
Renaissance
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The English
Renaissance



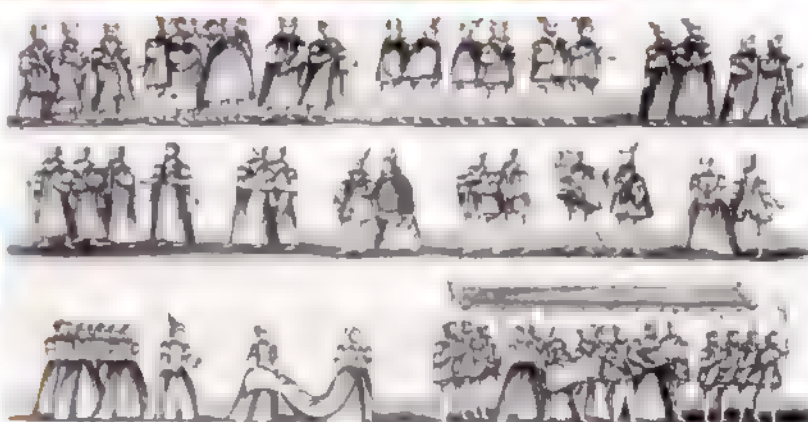
1 The striking of medals was a characteristic form of propaganda in the 15th and 16th centuries. Henry VII used them together with other projections of the royal image in pageantry and artifice to bolster his weak hereditary claims to the throne. His marriage with Elizabeth of York (1465–1503) shown here with Henry, was thought to give him a much better title to the throne than the right of conquest or the Act of Parliament upholding

it, both of which could be reversed. His use of the 'Tudor Rose', combining both the red and white roses, symbols of the two factions in the Wars of the Roses, exemplified his desire to appear as unifier of the nation.

2 Henry VII and his queen with their children are depicted with St George and the dragon on this altar piece, probably made for the royal palace at Sheen. The prominence given to the queen in early Tudor art was new. This painting commemorated Henry's patronage of the Order of the Garter, which honoured equally the old nobility and new soldiers of fortune. Henry did not intend to crush the nobility into submission but rather to forge a new alliance with them. But his unpopular taxation seemed to show that Henry had autocratic intentions. His ministers Richard Empson (d. 1510) and Edmund Dudley (1482–1510) were condemned for treason after the king's death.



3 Henry VII's revenue grew dramatically in his reign, based on an extremely careful management of Crown estates. Henry aimed to 'live of his own' and tried to make even war profitable, by keeping costs low and suing for peace, thus staying independent of both nobility and Parliament. In this way he hoped to establish a strong monarchy, which he regarded as a vital prerequisite for the establishment of English political authority in Western Europe.

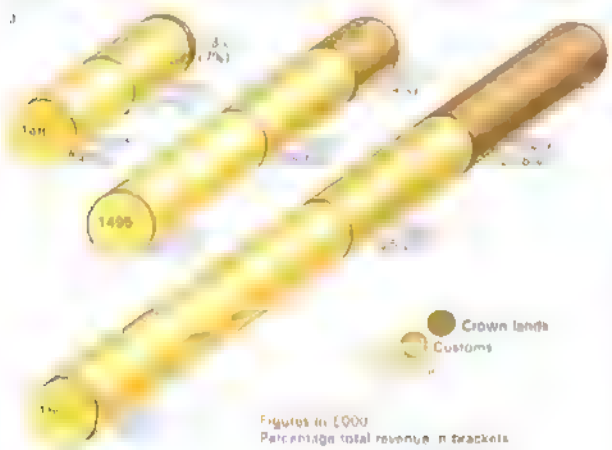


4 The baptism of Arthur (1486–1502): Henry's eldest son was an occasion for a typical royal procession. The name Arthur was chosen to echo that of the semi-mythical British hero whose cult was at its height in the 15th century, and to stress the Welsh origins of the Tudors. Similar events were organized at the start of his reign for each main town to affirm the glory of his rule. Henry also planned a major addition to Westminster Abbey begun in 1509.

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cultivated practical intellect of the Renaissance. Henry's cruelty in the interest of state was dramatically evidenced in the fate of four of his six wives (two of whom were executed and two divorced) only underlines the brilliant thunderous atmosphere of his court.

Whether willingly or not, Henry's use of the revived authority of the Crown had in the form of the Reformation revolutionary effects on England. He was initially content to work through powerful ministers, the first of whom Thomas Wolsey, cut a figure as a cardinal hardly less magnificent than his master. Wolsey established a position of unprecedented dominance in Church and State. Even before the Reformation he planned a wide ranging reform of the Church, but it was unachieved at his fall from power in 1529, and his legacy was a hierarchy heecorth subservient to the king alone.

Cromwell and the bureaucrats

By 1534 Henry had found in Wolsey's former servant Thomas Cromwell (c. 1485-1540) [9] a minister to carry through all the implications of the break with Rome and

realize the new potential power of the monarchy. A hard, practical man, Cromwell used the growing authority of Parliament. In his popular reformation of the Church, he was supported by the gentry, whom he manipulated with his system of patronage and an unprecedented network of informers [9]. Yet even Cromwell was only an instrument of government, dismissed and executed by the king in 1540 when his enemies won the ear of Henry.

Henry VIII was by then the master of a terrifying royal power, sustained by an efficient and much reformed bureaucratic machine, and able to impose his own middle way between the proponents of a radical reformation and the adherents of the old Catholic ways. His achievement a remarkable display of statecraft, was to have understood and given a lead to the strongest strands in public opinion, from which, as institutionalized in Parliament, he never moved very far. By the time of his death in 1547, the Tudor monarchs had become the natural expression of the growing national confidence of sixteenth-century England.

KEY



Henry VIII was an imperious man whose will dominated the political history of his reign. His court was a focus for all kinds of artistic patronage and with John Skelton (1460-1529) the poet as his tutor he was probably the first English king to know Italian and Spanish. He took advantage of the shrewd diplomacy of his father to make England a respected state, fighting many costly, although rarely glorious, wars. In this policy he claimed to embody the new assertiveness and aggressiveness of Englishmen overseas that also found expression in the steady erosion of the Hanseatic League's monopoly of English trade. The culmination of this nationalism was the Church's break with Rome.



5 The *Henry Grace à Dieu*, a carrack of 1,000 tonnes was built in 1510-14 and became Henry VIII's flagship. By 1510 Henry had won a strong position holding the balance of power between the Hapsburgs and Valois but he was never able effectively to assert his authority in Europe although he defeated the French in 1513.



6 Thomas Wolsey, who had ambitions to become pope and to dominate European politics, was the chief architect of Henry VIII's foreign policy before 1529. As papal legate he had great power in the English Church and seemed almost independent of the king's jurisdiction.



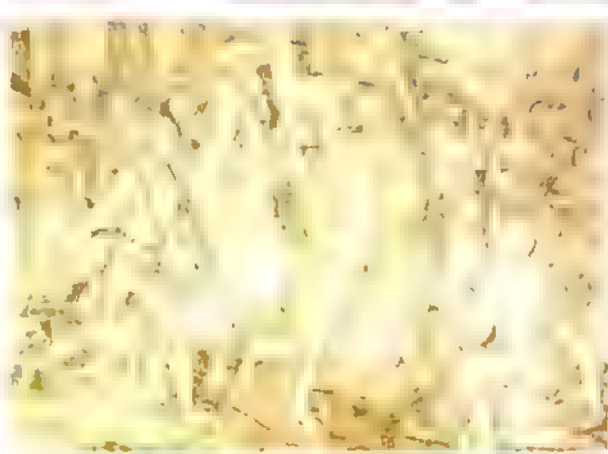
8 Walmer Castle, Kent, was one of the fortresses built by Henry VIII in 1539 as part of a system of coastal defence during a brief alliance of his enemies the Emperor Charles V and Francis I of France. The castle was built in the early sixteenth-century style of fortification.



7 Thomas Cromwell was the architect of the English Reformation. His ruthless determination, born of soldiering in the Italian wars and in business experience in the Netherlands, served him in good stead in Wolsey's service and later in the king's. A genuine

supporter of reform, he believed that the king should be the head of the English Church. He excelled as parliamentary manager, marshalling the broad support that the Tudor monarchy owed to create a great series of Acts establishing the royal supremacy and

suppressing the monasteries. His extraordinary executive ability helped him to enforce them through his system of informers and active control of the JPs. He made many enemies, particularly amongst the nobility, and in 1540 he was executed for treason.



9 The Pilgrimage of Grace was a rebellion of the north in 1536 in opposition to the Oath of Supremacy demanded of all ecclesiastics in 1534. This picture of 1539 shows the judge leaving the executioner of Thomas Marshall, abbot of Colchester, who verily supported the rebellion, uttered feeble ideas, private and who was determined to resist the suppression of his

The Reformation

When Martin Luther (1483-1546) posted his *Ninety-Five Theses* on the door of the Castle Church, Wittenberg, Saxony, on 31 October 1517, he was initiating a religious debate in the traditional fashion. But the consequences of his protest were revolutionary and heralded a new historical era: the end of the dominance of a single European Catholic Church in the Middle Ages, the creation of "reformed" or Protestant Churches, a century and a half of "religious" wars that convulsed the emerging nation states of Europe, and a new understanding of the Christian faith that has personally affected millions of men and women throughout the world. All these developments are historically part of "the Reformation".

The original intention

The term Reformation precisely describes Luther's original intentions. His *Ninety-Five Theses* [Key] were an attack on abuses inside the Roman Catholic Church. He denounced the frivolous uses to which the pope put his vast wealth and in particular the way in which he was raising money by the sale of

indulgences' [1], documents that the pardoner Tetzel claimed gave any purchaser automatic remission of his sins.

The history of the Catholic Church had for centuries, however, been a sequence of "re-formations", and for more than a decade before 1517 John Colet (c. 1467-1519), Erasmus [3] and Thomas More (c. 1478-1535) had been working to cleanse the Church of its follies. What made Luther more than merely a traditional reformer was his deliberate personal conviction coupled with the accidental political situation at that moment in Europe's development.

Luther's complaint against indulgences went beyond distaste of the money involved to a rejection of the whole concept of spiritual book-keeping with God. Luther felt a sense of infinite personal unworthiness that no amount of good works could ever overcome. As an Augustinian monk, a doctor of theology and then professor at the University of Wittenberg, he had mortified himself mercilessly but still felt impure, repulsive, sinful - unworthy even to approach God's presence. Only blind faith could save him.

From this conviction was born the doctrine of "justification by faith", which was to inspire the spiritual side of the Reformation. It involved great emphasis on the single gesture of faith - "conversion" - and rejected reliance on the priest as a middleman between the believer and God.

The effect on Germany

Luther's ideas, broadcast by the medium of the printing press, had a dynamic impact throughout Germany and were given immeasurable help in taking root by a fatal four-year delay on the part of the Catholic authorities. Pope Leo X (1475-1521), who hoped to strengthen his personal power by manipulating the imminent election of a new Holy Roman Emperor, adopted the traditional papal tactic of supporting a weak candidate for this position that carried so much influence in Germany. He had already selected as his protégé Frederick the Wise of Saxony (1463-1525), Luther's own ruler and protector. Thus Luther's teachings were not officially condemned until 1521 at the Diet (congress) of Worms.

CONNECTIONS

See also
The Counter
Reformation
The Renaissance
humanism
The English
Reformation
Politics in the age of
Elizabeth
Scotland from 1560
to the Act of Union
The golden age of
Dutch painting
Europe 1500-1700
The English

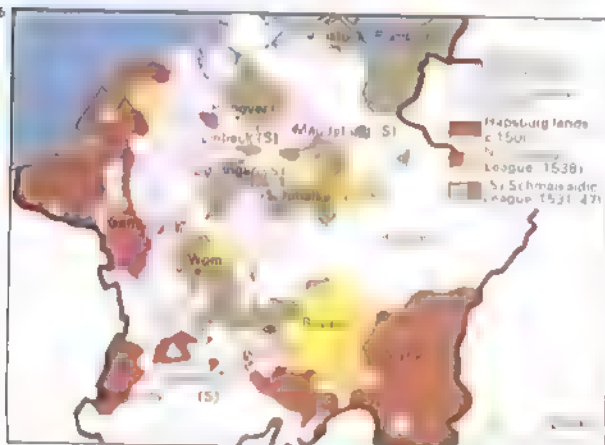


1 The sale of indulgences was to raise money for the rebuilding of St Peter's in Rome. An indulgence was originally a remission from punishment for a sin and was conditional on the sinner's sincere repentance. But in the



2 The religious orders of monks, nuns and friars provoked hostility. To ordinary people and reformers they seemed idle and excessively wealthy, spending their money on their own enjoyment – not in the service of God. They were envied by rulers for their valuable town properties and country estates.

3 The translation of the New Testament by Erasmus (1468-1536) was an example of Catholic efforts to reform the Church from within. Erasmus satirized the follies and superstitions of the Church, articulating the dissatisfaction that many felt without wishing to divide Christendom against itself.⁴ At works such as *In Praise of Folly* (1509), even the pope felt safe to laugh. But Erasmus's intention was more to guide than to reform, and he had little hesitation in denouncing the schism that Luther created.



4 Encouraged by Luther's success and sharing some of his ideals, the peasants of the southwest and central German states rose against their rulers in 1524. But Luther denounced their complaints, mainly political, social and economic - and in the face of stern repression the revolts collapsed.

5 The Holy Roman Empire, in theory the political expression of the Catholic Church, was in practice a grouping of rival German states. The Reformation provided the chance many of them had been waiting for to defy the power of the emperor. The Protestant rulers formed themselves into the Schmalkaldic League in 1531 and the emperor replied with the Nuremberg League in 1538. War seemed imminent but a compromise was reached in 1539.



Frederick the Wise then sent Luther into hiding for a year and the new emperor Charles V [6], had neither the time nor the power to control this defiance to his authority. In 1520 Luther had urged princes to throw off the unbiblical authority Rome claimed over the Church in their states and rulers were not slow to profit from this invitation. In 1524 all the Lutheran states and towns in Germany put their names to a "Protestation" against the emperor - the origin of the term Protestant - and after more than 25 years of conflict the Peace of Augsburg in 1555 recognized the right of a ruler to determine his country's religion.

England and Switzerland

The principle of the rights of a ruler had been exercised by Henry VIII (1491-1547) in his Reformation in England, which was confirmed by the Act of Supremacy of 1534. It was essentially a forcible transfer of the supreme power over the Church from the pope in Rome to the English sovereign. As in Sweden in 1527 and Denmark and Norway in 1536-9, there was little pretence that

Thomas Cromwell's dissolution of the monasteries (1536-40) was any more than a confiscation of the Church's wealth.

Only in Switzerland was the "purification" of the old Church's images and decorations a matter of genuine Christian austerity. In Zurich in the 1520s Huldreich Zwingli (1484-1531) had the church organs destroyed because their sound was profane while the citizens as a whole were banded into a new democracy of the faithful.

In Geneva [9] after 1541 Jean Calvin (1509-64) created a holy city that gave shelter to more than 6,000 refugees fleeing from persecution in France, Italy, Spain and during Mary's reign, from England as well. Calvin's book *Institutes of the Christian Religion* (1536) enshrined the other great Reformation theme of "predestination" that God chooses His own elect. It was the buoyancy of those who felt the assurance of their own election that inspired the Calvinists in the Netherlands as well as the Huguenots in France, the Presbyterians in Scotland and the Puritans in England and later in the New World.



Martin Luther, an Augustinian monk, was the first great inspirer of the Reformation. On a visit to Rome in 1511 he was appalled by the wealth and spiritual emptiness of the Catholic Church so different from the ideals of primitive Christianity. These ideals became his watchword as he argued against the Church's corruption in his *Ninety-Five Theses* (1517). Luther was not a revolutionary for he retained vestments and certain Catholic ceremonies, but in his reformed Church the communion cup was given to the congregation, as his were no longer objects of special prayers and Church wealth went to pastoral and educational activities.



6 The Emperor Charles V (1500-58) inherited the lands he longed to the Austrian and Burgundian Hapsburgs and also the kingdoms of Aragon and Castile. This provoked the fear of France, which fought

throughout his rule to prevent encirclement and encouraged German Protestant princes to defy his authority. Defeated in his ambition to reunite Christendom, he gave his possessions to his brother and son.

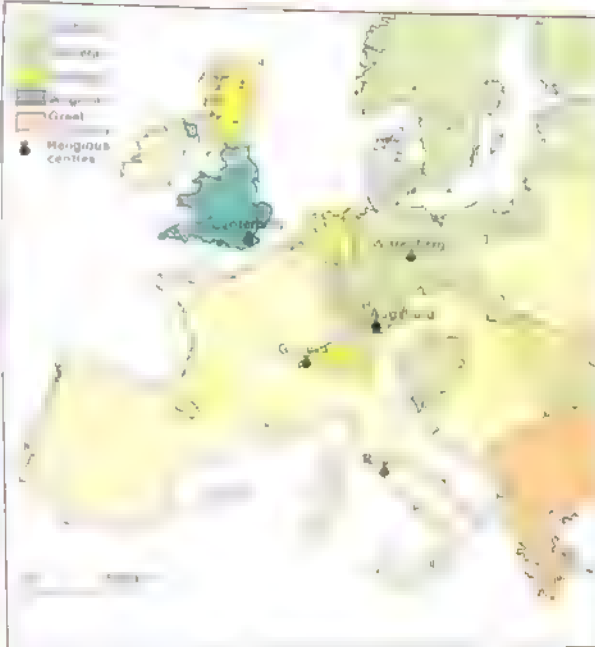


7 Fountains Abbey was among the finest religious houses destroyed during the dissolution of the monasteries in England (1536-40). The first act (1536) based dissolution on whether a monastery enjoyed an annual income of less than £200. The Act for the Dissolution of the Greater Monasteries (1539) completed the process. Pensions were paid to monks refusing to join the secular clergy and the Crown took the rest. A few lands were kept by the Crown, a few given away, but most were sold to gentleman farmers, thus creating a new class of landowners with the strongest reasons for staying loyal to the new order.



8 The Bible replaced the priest as the ordinary man's spiritual authority. The scriptures were translated from the Latin and Greek and offered to the people in their own languages - notably German in a translation by Luther, and English in the King James version of 1611.

9 Under John Calvin the Swiss city state of Geneva became the most influential single centre of the Reformation. Its citizens lived under the strict moral rules of the Calvinist Church, which readily burned opponents such as the anti-Trinitarian heretic Michael Servetus in 1553.



10 By 1560 Lutheranism had spread from north Germany to Scandinavia, Poland and Hungary along German trade routes and among the scattered communities of the trading cities. After 25 years of religious wars the Peace of Augsburg (1555) had given the Lutheran princes and cities the right to freedom of worship, in effect strengthening the hands of both Catholic and Protestant rulers within their own territories. But it gave no privileges to the followers of Zwingli and Calvin, who were the dominant religious groups in the Netherlands, Scotland and most Swiss cantons, and who formed a substantial Swiss minority in France, Hungary and southern Germany.



The English Reformation

The English Reformation had as its particular event Henry VIII's desire for an annulment of his marriage; thus the pope was unwilling to grant him. The more general movement was related to that which brought reformation to the Holy Roman Empire, France, and the Netherlands in the early sixteenth century. The Church's taxes drained money from the country to finance the pope's political ambitions; ordained priests could seek exemption from secular penalties, and the pope claimed to appoint higher clergy and bishops. The Church's superstitious practices, too, came under attack. There was a tradition of opposition to the pope that had grown up with John Wycliffe (c. 1328-84) and which had never completely died out, and a mood of restlessness and assumption in the light of Renaissance humanism.

Nationalism and the Reformation

The Reformation evolved from national opposition to external interference. Wycliffe's ideas, although mainly dealing with doctrinal matters, implied a revolt against papal authority. He translated the Bible into

English and suggested that the laity should make their own evaluations about religion. Such ideas anticipated those of Martin Luther (1483-1546), but by the early sixteenth century opposition by a nation state to the universal claims of the papacy was now conceivable. Henry VII reigned (1485-1509) had built up a monarchy strong enough to win the respect of the powers of Europe. Henry VIII (reigned 1509-47) [Key] was determined to acquire ideas. Renaissance princes, supreme at home and ostentatiously magnificent abroad.

Henry feared that he would be unable to have a male heir by his first wife, Catherine of Aragon (1485-1536). The pope, influenced by the Holy Roman Emperor Charles V, Catherine's nephew, was reluctant to annul the marriage. In 1533 Henry's mistress, Anne Boleyn [1], became pregnant, and Thomas Cromwell (c. 1485-1540) said that the problem could be speedily resolved by claiming that the king was not answerable to the pope. The marriage was annulled by Thomas Cranmer (1489-1556) [5], who was made Archbishop of Canterbury, and with

the divorce issue, and in 1534 Catherine was forbidden to appeal to Rome. The Reformation Parliament (1529-36) was directed at every stage of the break with Rome. Cranmer the necessary legislation. In 1534 it passed the crucial Act of Supremacy, declaring Henry to be Supreme Head of the English Church, and then sanctioned the dissolution of the monasteries by the Crown.

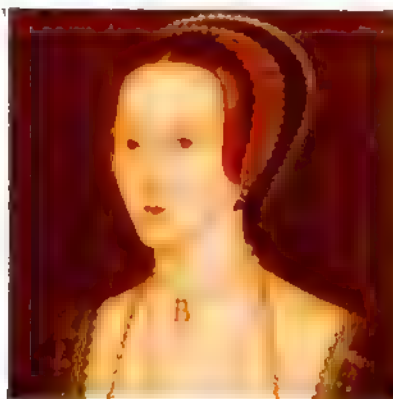
The introduction of Protestantism

Henry VIII wished to be head of the English Church, but wished to dissociate it from the Lutheran ideas that were spreading through the Holy Roman Empire. Cromwell and Cranmer, however, urged him to adopt a more Protestant attitude, and in 1538 the English translation of the Bible was ordered to be placed in every church.

The reign of Edward VI (1547-53) saw Protestant doctrine more fully accepted. Edward was a minor, and the Protector Somerset (1506-52) relaxed the laws against heretics and welcomed radical foreign preachers to the country. The clergy were allowed to marry, and the new prayer books

CONNECTIONS

1 Anne Boleyn (c. 1507-36) was secretly married to Henry in January 1533 to ensure the legitimacy of the child that she was carrying in the event, however, she gave birth to a daughter, Elizabeth, and not

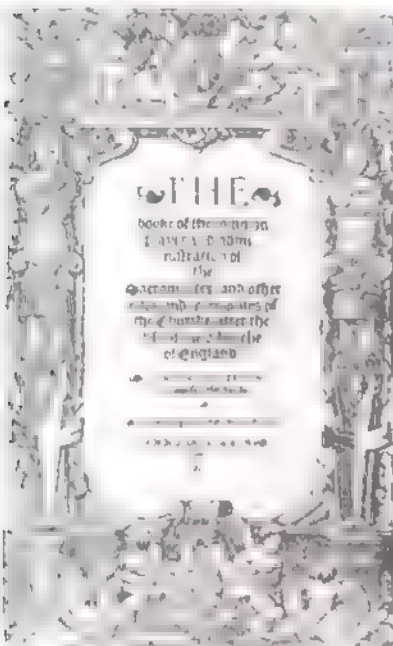


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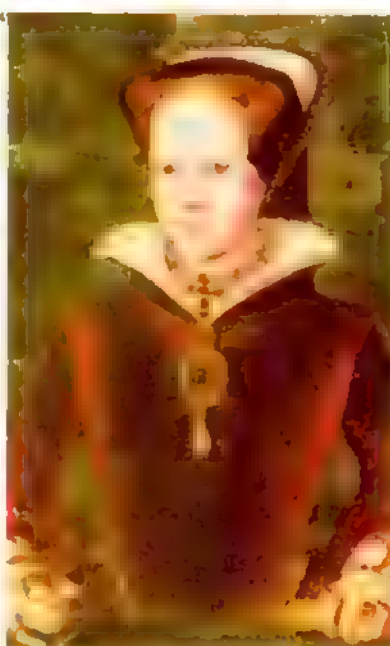
the male heir for which Henry had been hoping. During Anne's late pregnancy, Henry fell in love with Jane Seymour (c. 1509-37), accused Anne of adultery and incest, and had her executed in 1536.



2 Henry on his deathbed is shown giving pious instructions to his young son, Edward VI, to ensure the stability of the Reformation. Also shown are members of Edward's council, who carried out many of the most extreme Protestant policies to be adopted in England in the 16th century. Among these was an 'order against' superstitious images in churches, which led to much iconoclasm. Chantry chapels, used specifically for the purpose of praying for the souls of those recently dead and thought to be in purgatory, were also abolished in 1547. Their foundations had often included provision for schools, and so many schools were set up under Edward VI.



3 The prayer book of 1549 introduced a national liturgy, a piece of the various local uses practised previously. A rebellion in the West Country objected to the use of the vernacular in the service, claiming that it was like a Christmas game. Eventually the book was a compromise and was followed by a more Protestant version three years later.



4 Mary I refused to repudiate her mother's faith during Henry's reign, and after her succession she fortified her restoration of Catholicism by marrying Philip of Spain, leader of the Counter Reformation. Her ruthless determination to end Protestantism in England earned her the title 'Bloody Mary', but in private affairs she was gentle.



5 Thomas Cranmer enabled the Reformation with the major reforms of his translations of the Bible and liturgy, but politically he was weak and pliant. On occasion he went against his personal convictions to defer to royal authority.

He was the theological inspiration behind the innovations of Edward's reign. Mary made him recant his Protestant faith, but later he renounced the recantation itself, and at the end of the hand that signed it, into the flames, when burnt at the stake.

of 1549 [3] and 1552 showed a distinct turn towards Protestant doctrine.

Mary (reigned 1553-8) [4], the daughter of Catherine of Aragon, introduced a severe Catholic reaction; many Protestants were driven into exile, and nearly 300 were burnt at the stake as heretics [6]. But her repression was unpopular. Henry VIII had sold to the gentry many of the lands acquired by the dissolution of the monasteries. As a result this class had a vested interest in opposing a full restoration of Catholicism, and welcomed the accession of Elizabeth, who, as daughter of Anne Boleyn, seemed certain to restore Protestantism.

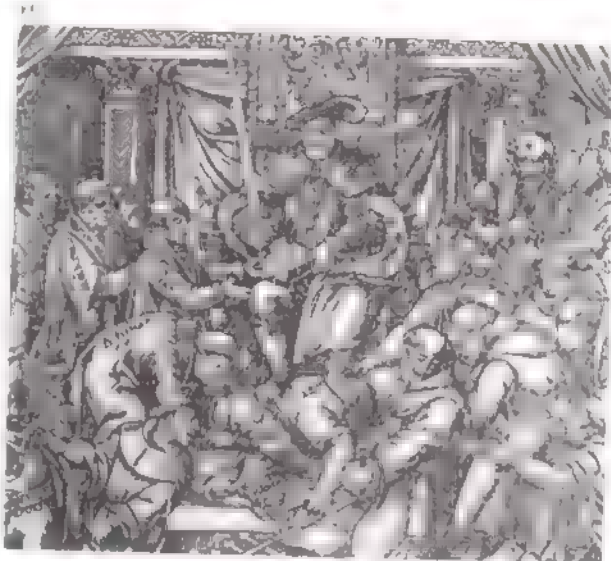
The Anglican compromise

Elizabeth I (1533-1603) acceded to the throne in 1558, and sought a middle way between the policies of the previous two reigns. But the return of many of the Marian exiles from Calvinist Geneva and a strongly Protestant Parliament forced her to adopt a more extreme attitude than she intended. She took the title of "Supreme Governor" of the Church, hoping thereby not to offend the

Catholics, the Thirty-nine Articles of belief to which all priests had to swear in 1563, contained ambiguous assertions acceptable to men of all current persuasions. And she also rejected all suggestions that the episcopacy should be abandoned.

In these ways, Elizabeth hoped to gain loyalty through compromise rather than to satisfy conscience, and despite constant pressure in Parliament and elsewhere from the Puritans (as the politically radical Calvinists came to be known) to modify this settlement, she assisted the Anglican Church to gain a positive identity. Some Puritans tried after the 1570s to be allowed to worship outside the Established Church. Eventually John Whitgift (c. 1530-1604) [7], drove underground all Puritan opposition throughout the country.

Fear of Catholic plots however, continued throughout Elizabeth's reign, allowing the Puritans to pose as good patriots. The Catholic threat remained constant, fuelled from abroad by Jesuit priests and support from Spain, and assisted by a few families in England itself.



Henry VIII, assisted by Cranmer, tramples the pope underfoot while monks wring

their hands in despair in this contemporary cartoon. Henry was determined to make his

authority absolute in his kingdom; he claimed that this was the wish of the people.

6 Foxe's *Book of Martyrs* (1563) is an account of the persecution of English Protestants since the 14th century. Written by John Foxe (1516-87) in Straasburg and Basel where he was in exile during Mary's reign, its emotive language and illustrations won great popularity and strengthened English hatred of Catholicism for many years. Here a victim of Mary's persecution is dressed as the Antichrist as he is led away to execution.



7 John Whitgift was made Archbishop of Canterbury in 1583 and although Calvinist in his personal views he strictly enforced the laws against dissenters. His use of the Court of High Commission, the supreme

ecclesiastical court of the country, was challenged as unconstitutional, but he insisted that the Puritans were broken as a political force. They re-emerged strongly however after the accession of James I.

8 A Puritan church shown here in a 17th century illustration was sparsely furnished and austere. The most extreme Puritans led by Thomas Cartwright (c. 1535-1603) attacked the bishops, hoping to return to the principles

of the early Church accepting only biblical authority. Brownists, led by Robert Browne (c. 1550-1633) were a radical wing hoping to run the Church by a loose federation of ministers elected by their congregation.



9 Fear of popish plots and invasions haunted Elizabeth's reign. This illustration of the various insurrections of the Catholics since 1550 forms part of a broad sheet on which a ballad recounting the same events was printed for sale to professional

balladeers. In 1570 the pope excommunicated Elizabeth and urged Catholics to depose her. A crisis of conscience ensued for previously unpolitical Catholics, who there after were regarded with suspicion if not actually persecuted. There was little dan-

ger of a Catholic rebellion since the Revolt of the North of 1569 had proved abortive, but several isolated plots against the queen still continued throughout her reign, culminating in the infamous Gunpowder Plot of 1605 against James I.

The Counter-Reformation

The Reformation in the early 1500s divided Europe into the Catholic countries of the south and the Protestant countries of the north. Under the protection of the German princes Protestantism became established and the Holy Roman Empire existed in an uneasy state of religious cold war. In the sixteenth century it was believed that two religions could not co-exist in one political community. Heterodoxy, championed by the princes, was an assault upon the secular as well as the spiritual order.

Within the Catholic Church, reformist cardinals such as Gasparo Contarini (1483–1542) advocated a conciliatory policy and reform of abuses. But discussions between Catholics and Protestants at the Diet of Regensburg in 1541 revealed only the impossibility of a compromise and blasted hopes of a revived Christian unity.

Since the Lutheran Reformation a new, formidable Protestantism had assaulted the Catholic Church – the organized Church of John Calvin. As Protestantism gained ground in Germany and Switzerland, and missionaries went out from Geneva to France and the Low

Countries, the Catholic Church realized the need for action. Between 1536 and 1545 Pope Paul III repeatedly called for a general council, but was forced to postpone it for political reasons. The council finally met in Trent on 15 December 1545. Ostensibly this was a council for all Christendom. But the location in the Italian Alps and Pope Paul's successful coup in determining votes by representative rather than by nation ensured an Italian, papal dominance.

The new orthodoxy

Contarini's followers still hoped for reconciliation with the Protestants. Cardinal Gian Pietro Caraffa (1476–1559) and his party were in no such mood. Meeting in three sessions, (1545–7, 1551–2, 1562–3) the council answered the Lutheran challenge for the first time. On all major points of theological controversy, concerning salvation, transubstantiation and the authority of the fathers, the Catholic position was reasserted with a clarity that late medieval theology had lacked. The council made token reforms of the glaring abuses. Most important, the

Council of Trent reinforced the authorities of the Church from the bishops to the pope, whose supremacy was not questioned. The defenders of a new orthodoxy were already armed with the Inquisition (established in 1233) and the papal Index of prohibited books. Trent made the Roman Catholic Church one denomination among many – but a denomination that was ready to fight. Even before the council met, Ignatius Loyola (1491–1556) [2], who was appointed general of the Society of Jesus in 1541, a year after the pope's approval, had provided an army of missionaries – the Jesuits.

Beginnings of a religious war

The end of a policy of conciliation meant religious war. Where nobles and princes had emerged as the patrons of the Protestant faiths it meant civil war. In France the rival noble factions of Bourbon and Guise adopting the cause of Calvinism and Tridentine Catholicism (Roman Catholicism as reformed at the Council of Trent) began 30 years of conflict. Political ambition was often the handmaiden of religious zeal.

CONNECTIONS

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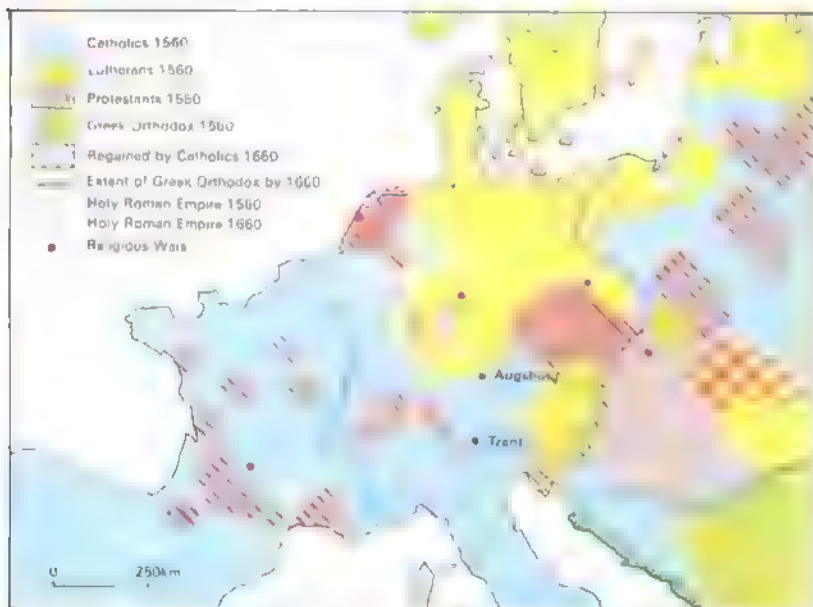
The Reformation

See also

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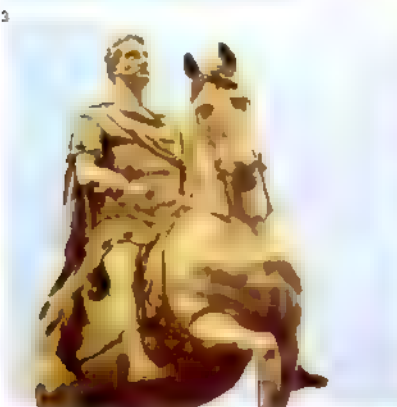


1 The Counter-Reformation in the century following the Council of Trent won back much of the territory lost to Protestantism. It was most successful in achieving a popular reconversion in Poland, where the enactment of religious toleration in 1573 led to a sudden growth in Jesuit activity in the field of education until the support of Sigismund III (r. 1587–1632) for the Jesuit cause led to the complete suppression of Protestantism. The Counter-Reformation was often marked by the banning of "heretical" books. Catholic control of higher education, supported by royal and noble families, and the denial of Protestant rights. Its success was often achieved by war.



2 Ignatius de Loyola was a Spanish nobleman born in 1491. He underwent a religious experience during a period of convalescence after being wounded in battle. After studying theology at the Sorbonne in Paris in 1534 he formed a group of devout men who swore to serve

Christ and his vicar on earth, the pope. His religious order, the Society of Jesus, was strictly organized, its members being subject to rigorous discipline. The theology outlined by Loyola in his *Spiritual Exercises* has been described as a 'shock tactic' 'spiritual gymnastic'. Originally, membership was confined to 60 Jesuits, but in 1540 the pope authorized the order to increase its membership without limit. By 1556 the order was firmly established in Europe and it grew greatly in size until the mid-17th century, acting as the principal agent of the Counter-Reformation. It conducted widespread missionary work.



3 William of Orange (1533–84), 'the Silent', was the largest landowner in the Netherlands. He led the opposition to Philip II's erosion of the aristocratic and constitutional liberties of the Netherlands. During the war William tried

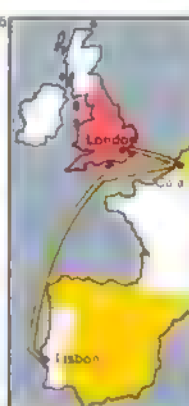
to unify the provinces, which were jealous of their rights and promoted religious toleration to prevent a rift between Protestants and Catholics in their defence of common constitutional rights. Dutch independence was recognized in 1648.



4 The Massacre of St Bartholomew's Day – 24 Aug 1572 – was a slaughter of French Protestants (Huguenots). The

massacre spread throughout France leading to the outbreak of civil war. Catherine de' Medici (1519–89), the French

regent, alarmed at the growing Huguenot political power, plotted against the leaders and instigated the massacre.



5 The rebellious Netherlands were helped in their struggle against Spain in the 1560s and 1570s by Elizabeth I of England. It became increasingly evident to Philip II that the Low Countries would not be settled while

the rebels received foreign aid. In 1580 Philip successfully pressed a claim to the crown of Portugal and the acquisition of a powerful fleet, together with the increasing revenue from the Indies, perhaps persuaded him to launch the Armada in league with leading French Catholics. Philip hoped to put in at French ports, while his regent for the Netherlands, the Duke of Parma, was to clear towns along the coast to meet the Spanish ships. Philip may have intended the conquest of England (we can not be sure) or more probably have planned to contain the English while Parma militarily reasserted Spanish control in the Netherlands. The Armada was defeated in 1588.

The popes looked to the Catholic princes of Europe to be the secular arm of Tridentine decrees. In particular they looked to the principal heir of Charles V – Philip II of Spain (1527–98) [Key]. In an attempt to exercise greater control over the prosperous Low Countries Philip introduced the Inquisition. Only during the course of revolt did Calvinism find its champions in the defenders of the Netherlands' privileges.

In 1555 the Peace of Augsburg had brought a temporary lull to conflict in Germany. For the rest of the century the empire remained in uneasy peace as the Hapsburgs tried to re-establish their authority and the Calvinists (not recognized in the peace) gained ground. The Catholic princes of Germany, acting independently of the emperor, formed their own political league under Maximilian of Bavaria (1573–1651).

Thirty Years War

The signal for conflict was given when the Bohemian subjects resisted the decisions of the Emperor Matthias (1557–1619) to make the staunchly Catholic Ferdinand of Styria

(1578–1637) king of the Bohemians. The Bohemians wanted neither a Hapsburg nor a Catholic. In 1618 they cast two imperial councillors from the window of the council chamber at Prague and called upon the head of the German Protestants, Frederick the Elector Palatine (1596–1632), to defend their cause [8]. Thirty years of war ensued.

The imperial forces, assisted by Maximilian, crushed Frederick and Hapsburg power was restored. By 1629 Ferdinand, now emperor, was strong enough to impose an edict restoring to the Catholic Church all lands secularized since 1552, so undermining the territorial strength of the Protestants. But the strengthening of the Hapsburgs and the identification of Spanish and imperial Hapsburgs with Catholicism brought in turn all their enemies against them. The Swedes [7] then ironically the French, under the Catholic Cardinal Richelieu [9], fought with the Protestant cause against the Hapsburgs. After 30 years of turmoil the weary Emperor Ferdinand III (1608–57) signed the Peace of Westphalia, 1648, in which he recognized the Calvinist faith within Germany.

KLY



Philip II of Spain dominated European politics in the late 16th century. Philip was looked to as the champion of the Counter-Reformation Catholic Church. In practice, as more than one pope complained, he defended first and foremost the interests of the Hapsburgs. His identification of the Hapsburgs with the Catholic interest, using the Inquisition in Spain, complicated the religious and political life of Europe and he was involved constantly in war – against the Turks, the rebellious Dutch, the French Huguenots and the English. Philip made Spain a great power, but in the process he aligned against her almost all the states of Europe.



6 The Protestant Henry of Navarre (1553–1610) became heir to the French

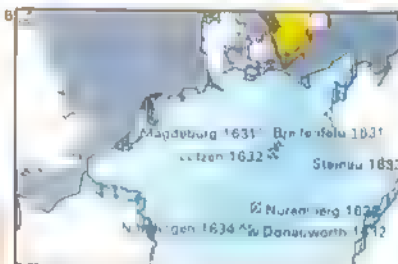
throne in 1584 after the death of the Duke of Anjou. From that date and

after more than 20 years of civil war in France the political and religious situation was reversed. Now the Catholics feared repression and the Guise feared subjection. Catholics formerly apologists for divine monarchy, penned tracts justifying rebellion. But Henry of Navarre who became king in 1589, finally brought peace to France. Renouncing his former Protestantism (saying "Paris is worth a Mass") he thus separated Protestantism from the House of Bourbon. By tolerating the Huguenots in the Edict of Nantes (1598) he appeased his former allies and ended the French civil wars.



7 Gustavus Adolphus [A] came to the throne of Sweden in 1611 and as a young man defeated Denmark

Poland and also Russia. He built a fleet and a formidable army which transformed Sweden



into a great power. The threat to Sweden was the Hapsburg Catholic control of northern Germany [8]. The Polish war persuaded Gustavus to postpone a defensive war against

the Hapsburgs in the Baltic, but growing Hapsburg strength after 1629 threatened Swedish security as well as Swedish Protestantism. The Swedes won resounding victories at Breitenfeld in 1631 and Lützen in 1632 but Gustavus Adolphus was killed in the latter battle and without his leadership the Swedes were routed at Nördlingen, 1634.

8 The Defenestration of Prague occurred in 1618 when the Bohemian Protestants hurled two imperial regents from a council window. In 1609 they had obtained from Emperor Rudolph II (1552–1612) a guarantee of religious equality and freedom of worship. Rudolph was succeeded by the old and sick Matthias, who was urged to name as his successor the king of Bohemia. Although they disliked Ferdinand of Styria, the Bohemians consented to his election. The crisis occurred after Matthias had visited Prague securing the election. In his absence the ten regents he appointed denounced the decree of religious freedom and demolished Lutheran churches.



9 The policies of Cardinal Richelieu (1585–1642) minister to Louis XIII, reflected the French conflict of interests at home and abroad. The French saw the Catholic Hapsburgs as their greatest threat. If Philip II and III had established strong controls in both Spain and the Low Countries, France would have been sandwiched between two branches of a hostile power. It was the dilemma of the French monarchy that its interests required Catholic orthodoxy at home but support of the Protestant cause abroad. From 1634 Richelieu brought France openly into war with the emperor (until 1648) and with Spain.



Politics in the age of Elizabeth

Elizabeth I (reigned 1558–1603) of England [Key, 1] believed that as a queen she belonged to a unique species and governed by divine ordinance. She told the House of Commons that matters were revealed to her “princely understanding” that could not be comprehended by “a knot of harebrains”, and the head of the body politic was not to be ruled by the foot. But her theory of government was so intuitive and practical that she seldom needed to discuss it. Where James I would philosophize about the respective roles of king and Parliament, she met opposition with curses, demotions and sharp spells of imprisonment.

The organization of government

The heart of the Tudor system was the Privy Council. There, and in its offshoots such as the Star Chamber and High Commission, policy was decided in matters parochial as well as national. Effective government depended on the industry and loyalty of the principal secretary, and in this Elizabeth was scrupulously served by Lord Burghley [5] who was her secretary from 1558 to

1572, and Francis Walsingham (1530–90).

But the decisions of the Council could not be put into effect without the co-operation of the Commons and the unpaid magistracy of the justices of the peace (JPs) who had to enforce a growing corpus of social legislation. Most JPs belonged to the class of rising gentry [4] who were buying land and acquiring seats in Parliament. Thus their enthusiasm for legislation in Parliament reflected their willingness to enforce it.

Elizabeth and Parliament

Elizabeth reserved to the royal prerogative all decisions on national religion, foreign policy, her marriage and, later, the appointment of her successor. Religion was central to all these and the aggressively Protestant Commons wanted to amend the moderate religious settlement of 1559 and demanded a foreign policy hostile to the Catholic powers. Elizabeth would not allow the Commons to debate these issues, but they asserted that they had privileges of freedom of speech and freedom from arrest. Elizabeth, however, declared that the right of free speech meant

merely the Commons’ right to discuss what was set before them by the royal ministers not to initiate legislation of their own. Ministers controlled debates through the Speaker, who was at that period a royal nominee and not a servant of the House; dissident members were occasionally imprisoned in the Tower of London.

But it was a losing battle. As inflation devalued the Crown’s hereditary revenues from land and feudal dues, Elizabeth remained solvent only by selling lands and offices, and when after 1585 she had to meet the expense of a long war with Spain and rebellion in Ireland she became increasingly dependent on Parliament’s support. Refusing assent to taxation was the Commons’ ultimate weapon, and although the religious issue was quiescent in the 1590s, Elizabeth had to make concessions over monopolies. Measures for the regulation of trade belonged indisputably to the royal prerogative, and in theory a monopoly for the sale or manufacture of a product was considered a legitimate reward for enterprise. But Elizabeth had been selling monopolies as a

CONNECTIONS

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(financial) expedient, and her surrender on this issue in 1601 was ominous for future attacks on royal authority.

Outside the area of political conflict the Tudor state exercised wide paternal powers. Imports might be prohibited to protect the home producer and exports banned in times of shortage. The Statute of Apprentices of 1563 was an attempt to settle wages and working conditions at a time of economic uncertainty. To assist the fishing industry Protestant England still prohibited the eating of meat in Lent, and the sumptuary laws upheld the gradations of society by controlling the dress and diet of the lower classes. Despite Puritan opposition to Sunday activity, sports were officially encouraged on Sundays because they contributed to a healthy yeomanry which was considered important to national defence.

Social problems

Economic regulation failed to solve the growing problem of enclosures. The open field system of strip farming was inefficient and agriculture benefited from the consolida-

tion of more compact fields. But the increasingly common enclosure merely for sheep farming [2], which employed less labour and might deprive the peasantry of the common land on which they kept their beasts, was a source of hardship for many peasants. By the end of the century Elizabeth's governments had some success in maintaining tillage and checking enclosure to ensure social stability, but the merchants and gentry who bought land were anxious to exploit its full economic value, heedless of traditional rights that villagers might have on it.

The government was more successful in meeting its obligations to the dispossessed. Poverty and unemployment became a serious problem, aggravated by chronic inflation [3], and gangs of masterless men and beggars [6] in the towns caused widespread alarm. A series of measures culminated in the Poor Law of 1601 which distinguished between the sick and incapacitated poor, who were to be assisted from the parish rate, the able-bodied, who were to be provided with materials and work, and the wilfully idle, who were to be branded and whipped.



Elizabeth toured her country in triumphal processions almost every year of her reign. As well as creating a close rapport between the queen and her subjects, on

which she prided herself, these progresses enabled her to gauge the dominant mood of the country. The cost of the tours was met by local noblemen whose hospitality she

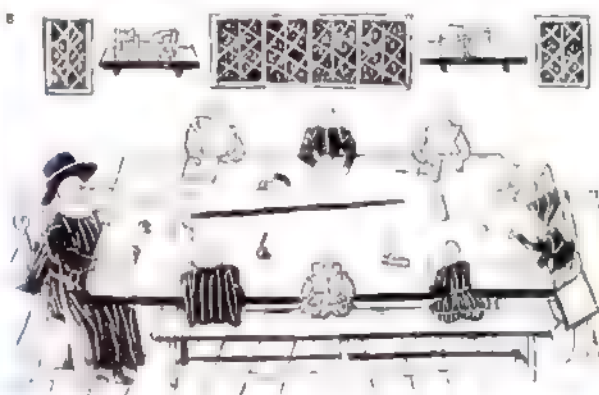
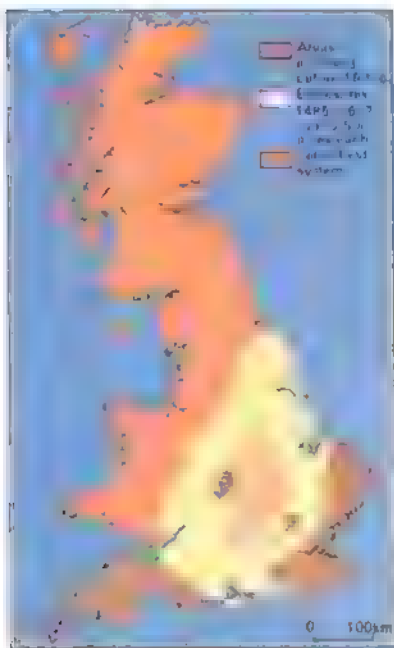
sought, they were thus an important way of reducing the huge expenses of her splendour. There were many distant parts of England which she rarely visited.



5 William Cecil, Lord Burghley (1520-98) acted as adviser to Elizabeth for 40 years including his times as lord treasurer after 1572. He too was cautious and recognized the limitations on action that were imposed by Elizabeth's unique position as an unmarried queen without obvious heirs. He personally sympathized with the Calvinists, but supported the Anglican settlement publicly, and was careful to maintain strict control over the House of Commons to prevent a decline in royal authority. But he some times complained that Elizabeth's policies were vacillating. His son Robert, Earl of Salisbury (1563-1612) inherited his authority in 1598 and served under James I.



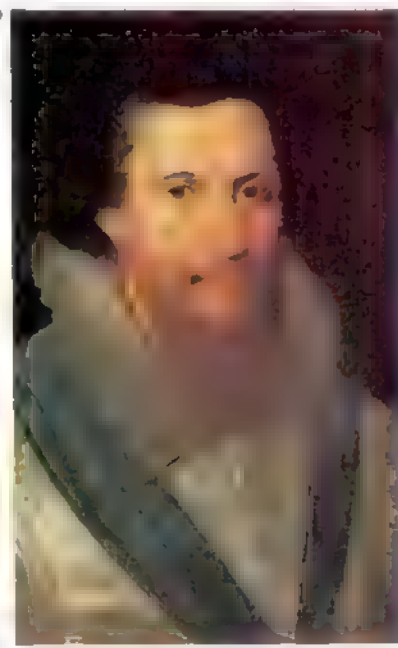
6 Beggars were increasingly numerous in Elizabeth's reign. Genuine unemployment was aggravated by the ancient system that left each parish responsible for its poor, so that a man travelling in search of work would be moved on quickly before he became a public liability. Despite much protest against heartless and lords there were also thought to be many professional beggars who had ingenious methods of feigning dereliction and disease. Such beggars roamed the country in hordes. The Poor Law of 1601 tried to distinguish between these and genuinely needy people. It set a fixed rate from parishioners for work houses. Begging was banned and "sturdy beggars" whipped.



7 The enclosures of the Tudor period were mostly confined to the old champion (midland) country and even there only 6% of the land was affected. Elsewhere enclosed fields had been used for centuries. Enclosure became less common after 1560.

8 Education in Tudor England was reorganized after the monasteries, once the main source of lay education, were destroyed. But many grammar schools, for the children of the middle classes, were set up, as literacy became necessary.

9 Robert Devereux, Earl of Essex (1566-1601) was a glamorous nobleman who fascinated Elizabeth in her last years. After falling out of favour, he returned to London from Ireland in 1601 to organize a coup to regain power. On its defeat he was executed.



Elizabeth and the Armada

When Elizabeth I came to the English throne in 1558, France, not Spain was the immediate enemy. Philip II of Spain (reigned 1555–98), at that time a widower, had been married to Mary, Elizabeth's sister, and he proposed marriage to Elizabeth. Although Elizabeth declined the offer, as she was to decline all other offers of marriage, she and Philip had a common fear that the ambition of the Guise rulers of France would threaten their lands.

The threat of Mary, Queen of Scots

The danger to England was from the "auld alliance" of France and Scotland, where Mary of Guise (1515–60) was acting as regent for her daughter, Mary Stewart, Queen of Scots [5], who was married to the French king. Elizabeth connived at and unofficially assisted a Protestant revolution that overthrew French influence in Scotland in 1560, but Mary Stewart's husband died and in 1561 she returned to rule her native country, a beautiful young widow and the most attractive match in Europe. As a Catholic and the great-granddaughter of Henry VII, she was considered to be the

rightful queen of England for those of the Catholic faith who regarded Elizabeth as a Protestant bastard.

After a rash and unsuccessful campaign to recover Calais (1562–3), Elizabeth realized the weakness of her position and settled into the waiting game that thereafter characterized all her foreign policy. By procrastination, apparent indecision and calculated twists of policy she weathered crises that brought her advisers to despair. She was evasive on Mary's requests to be acknowledged as her successor; and when in 1568 Mary fled from Scotland, she kept her in protective custody for 19 years. So long as Mary lived, France or Spain would hesitate to make an all-out attack on England; it was not until war with Spain had begun that Elizabeth consented to Mary's execution.

War with Spain

In 1572, the French Huguenots (Protestants) were broken in the Massacre of St Bartholomew, and the revived civil war weakened France's activity as a protagonist in international politics. Since the excommunication of

Elizabeth by the pope in 1570, Philip, as secular leader of the Counter Reformation, had a justification for war against her, and a subdued England would have meant improved routes for him to The Netherlands.

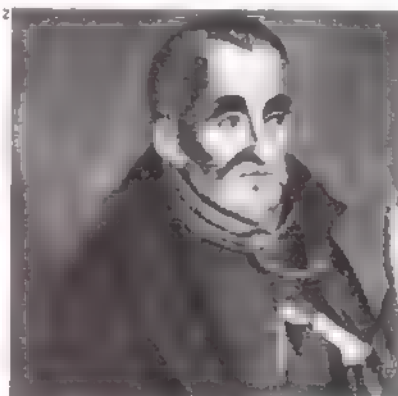
There were provocations on both sides, particularly the English privateers' attack on Spanish shipping and posts in the West Indies, and Catholic plots to murder Elizabeth. Yet the drift to war with Spain was gradual. English commercial ties with Spanish-controlled Flanders were too strong to be easily broken, and Philip gave little support to his envoys when they plotted against Elizabeth's life [2]. Elizabeth likewise was equivocal towards the seamen who captured Spanish treasureships and disrupted the trade routes. She willingly shared the plunder, but she disavowed responsibility. She was equivocal too, at first, towards the Dutch revolt against Spanish rule, because she disapproved in general of rebellious subjects and she had not yet the resources for a head-on conflict with Spain.

The assassination in 1584 of William the Silent, the leader of the Dutch rebels,

CONNECTIONS

See also

Elizabeth I
Mary, Queen of Scots
The Armada
The English militia
The Spanish Armada



3 The English militia of levies organized county by county was the only means of defence on land, since there was no standing army. After 1557 every man between 16 and 60 was liable for training in the use of pike and

musket. But to be efficient the militia needed energetic lord-lieutenants, much of its equipment was old and out of date. It was used to defend the Scottish and Welsh borders, and could not be used overseas.

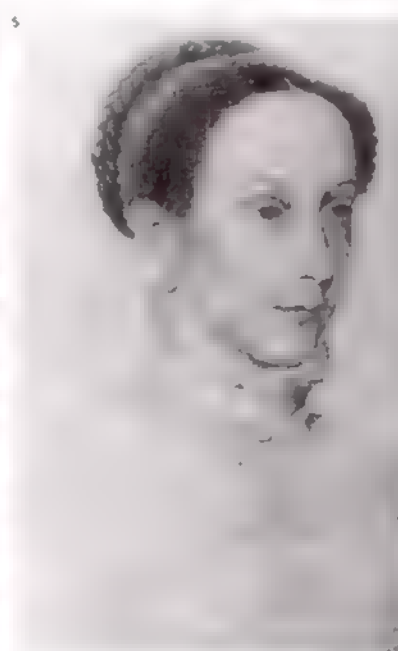
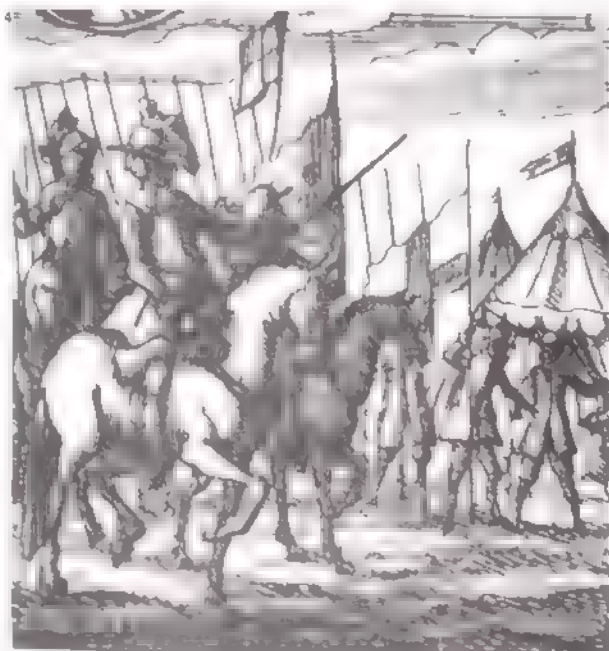


1 The fall of Calais, the last English foothold in Europe, in 1558 after 200 years of English control, resulted from a war between France and Spain. England was allied to Spain by the marriage of Mary

2 Edmund Campion (1540–81) was leader of the Jesuit mission in England that was associated with plots to kill Elizabeth to restore a Catholic monarch. He was betrayed and executed for treason.



4 Elizabeth sent the Earl of Leicester in command of an official royal army to The Netherlands to stiffen Dutch resistance to the Spaniards after the Catholics had captured Antwerp. He set out in December 1585 but returned a year later in disgrace. The expedition was costly. Leicester had quarrelled with his allies and angered Elizabeth by assuming the title of Governor of the United Provinces. This conflicted with the queen's wish to respect Spanish rights of sovereignty. Leicester returned to The Netherlands in June 1587 but was again recalled in November. He is shown here in command of the troops assembled at Tilbury in 1588. English troops fought in The Netherlands until the peace of 1608.



5 Mary, Queen of Scots (1542–87), the daughter of James V, was sent to France in 1548 to foil plans to marry her to Edward VI of England. She married the future French king Francis II (1544–60) instead. She later married Lord Darnley, her cousin. This was dangerous to Elizabeth because each had a claim to the English throne. Mary was driven from Scotland after the death of Darnley. Elizabeth imprisoned her in Sheffield Castle to prevent her causing further trouble to England. But Mary was involved in several plots to assassinate the English queen and in 1587 Elizabeth at last consented to Mary's execution. She had been unwilling to do this because they were cousins and because it implied an attack on the royal authority.

prompted Elizabeth to send the Earl of Leicester on an official expedition to help the rebels in 1585 [4], thus provoking the long-
 feared war with Philip. John Hawkins (1532-95) had by that time reorganized the English navy. To meet the needs of the age he replaced the high-built carracks, fit to operate only in home waters, with fast ocean-going galleons longer in proportion to the beam [Key]. He armed them with long-range cannons, and used smaller crews, which meant less congestion and disease.

Francis Drake (c. 1540-96) employed some of these new ships in raids to harass the Spaniards at little cost. In 1585-6, after a landing in Vigo Bay, he plundered the Cape Verde Islands and attacked San Domingo and Cartagena in the Spanish Main. In 1587 he sailed to Cadiz and destroyed 30 ships of the Armada that Philip was preparing to carry an army to England.

The Spanish Armada

Such tactics delayed and weakened the Spanish invasion plan. Nevertheless it was a formidable force of 130 ships and 30,000

men, commanded by the Duke of Medina Sidonia (1550-1615), that rode into the Channel in July 1588 with the object of joining a Spanish army of 17,000 assembled in the Flemish ports [6]. England's land preparations were so dilatory and inadequate [3] that there could have been little effective resistance if this combined force had landed or even if Medina Sidonia had interrupted his progress to seize a Channel port.

The English victory over the Armada [8] was a combination of good fortune and skilful tactics, and it was immediately apparent that the Spaniards would never again be able to threaten the existence of a Protestant England. But the war continued until 1604, with few dramatic successes on either side. English involvement in The Netherlands continued, and Elizabeth intervened against Spanish ambitions in France in the 1590s, the Spaniards, on the other hand, tried to intervene in a rebellion against English rule in Ireland [7] in 1596-7. The war became an increasing drain on the resources of both countries and the peace made by James I was well received at home.



The Ark Raleigh, later named the *Ark Royal* after being presented to the queen, was one of the finest of the new ships of Elizabeth's reign.

It was a four-masted galleon, the main masts bearing topgallants. Walter Raleigh (c. 1552-1618), but not for his own privateers. During the Armada, it

was the flagship of Lord Howard of Effingham, the English commander. Later it was named the *Anne Royal* after the queen of James I.



6 The Spanish Armada put out from Lisbon at the end of May 1588 but was immediately beset by storms which forced it into Corunna. It was not until July that it could sail for England. Lord Howard (1536-1624), the English admiral, sailed out of Plymouth

when the Armada arrived eventually in the Channel to secure the windward position, but the Spaniards continued eastwards. There were some serious encounters off Portland and the Isle of Wight, but when the Armada reached Calais the army it intended to

convoy to England was not ready. Fireships sent in by the English caused many Spanish ships to drift out to sea. Medina Sidonia, the Spanish admiral, tried to re-form off Gravelines, but the fleet was destroyed by the superior gunnery of the English at close

quarters. As the wind veered south-west the Spanish had to turn north, and were pursued as far as the Firth of Forth. Bad weather then wrecked the fleet, which limped home with more than half its ships missing. The English did not lose a fighting ship.



7 Rebellion in Ireland was dangerous towards the end of Elizabeth's reign. Turlough O'Neill (d. 1595), here seen acknowledging the authority of the English commander Henry Sidney in 1567, kept

relative peace, but after his death a countrywide revolt occurred that the Spaniards tried to support in 1596. The Irish rebellion was more expensive to Elizabeth than the whole war with Spain.

8 Of the 130 ships of the Armada, only about 50 were designed as fighting craft. The rest carried equipment for the invasion. The galleons themselves were slower and less manoeuvrable than the English ships.



Exploration and trade in Tudor England

The sea-captains of the age of Elizabeth (1533-1603) - Drake, Raleigh and Hawkins - provide probably the most enduring myths of Tudor England, but their exploits were built on a history of exploration that went back nearly a century. The motives to explore were various, but the most important were the economic pressure of a rising population, inflation, and declining traditional markets. So too were sheer inquisitiveness and a thirst for adventure, and a national pride that would not permit England's enemies to enjoy the wealth of the New World unopposed.

The changing pattern of trade

Trade in wool and unfinished woollen cloth was England's vital export in the early sixteenth century. But in the 1540s the English currency was devalued by debasement and the exchange rate turned against the English exporter. The ancient 'wool-staple', or official distribution centre of English wool in Europe, disappeared with the loss of Calais in 1558, and Antwerp itself declined during The Netherlands' long struggle for independence from Spain. The wool industry there-

fore was seriously affected and capital was diverted to the enclosure of land for improved agriculture rather than pasture, and to the development of coal and other mineral deposits. Traders therefore began to look overseas: merchants hoped to sell cloth to the heathen in undiscovered countries. Exploration was therefore central to economic expansion.

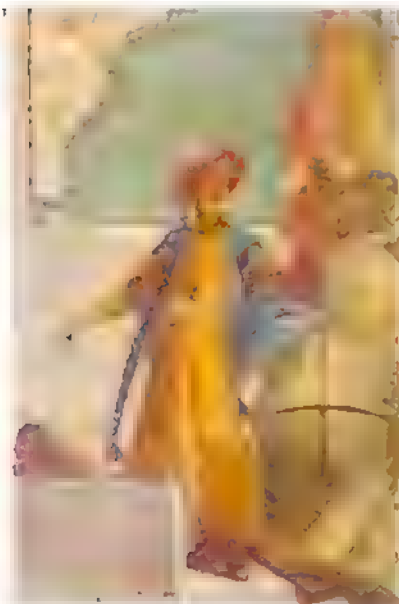
The start of English exploration

The first "English" explorer was an Italian by birth, John Cabot (c. 1450–c. 1500) [1], who had settled in Bristol. He set out in 1497, commissioned by Henry VII to discover lands not previously known to Christians, to circumvent the papal bull of 1493 that divided between Spain and Portugal all new territories. All subsequent Tudor voyages only acknowledged territory "effectively occupied" in 1493 as related to this bull. Cabot found Nova Scotia and the important cod fisheries of Newfoundland, and suggested a northwestern route to the Spice Islands and the fabled riches of the East that were to delude many future explorers.

Cabot's son Sebastian (1474-1557) unsuccessfully projected a northeastern passage to India, but the expedition of Hugh Willoughby (died 1554) and Richard Chancellor (died 1556) in 1553 took them to Moscow, the Muscovy Company that they set up traded with Russia and established an overland route to Persia. Earlier in 1604 Sebastian had crossed the Davis Strait northwest of Newfoundland, and come to Hudson Bay, which he thought to be the Pacific. In three voyages (1576-8) Martin Robisher (c. 1535-94) [2] reached the same waters, while John Davis (c. 1550?-1605) established that Greenland was separate from the mainland and sailed into Baffin's Bay. The Northwest Passage was never free of ice, and so it could not be, as was hoped, complementary to the Cape Horn and Cape of Good Hope routes. The belief in a great southern continent stretching from the south of Cape Horn to the East Indies was also doomed to disappointment. But in search of these far-ranging and often fictional objectives the Elizabethans sailed the known Earth and sometimes beyond it [4].

CONNECTIONS

See also

[illegible]

1 John Cabot and his son Sebastian discovered Nova Scotia off the North American coast in 1497 but believed that they had found Asia. John died on another voyage a few years later. In 1509 Sebastian sailed past southern Greenland into the Davis Strait, and may have gone as far as Hudson Bay. He later went to Spain and spent many years as pilot-major to the mercantile marine, making explorations of the South American coast. He returned to England in 1547, and helped to form a joint stock company in 1553 to search for a northeastern passage. This company sponsored the expedition of Willoughby and Chancellor to Moscow.

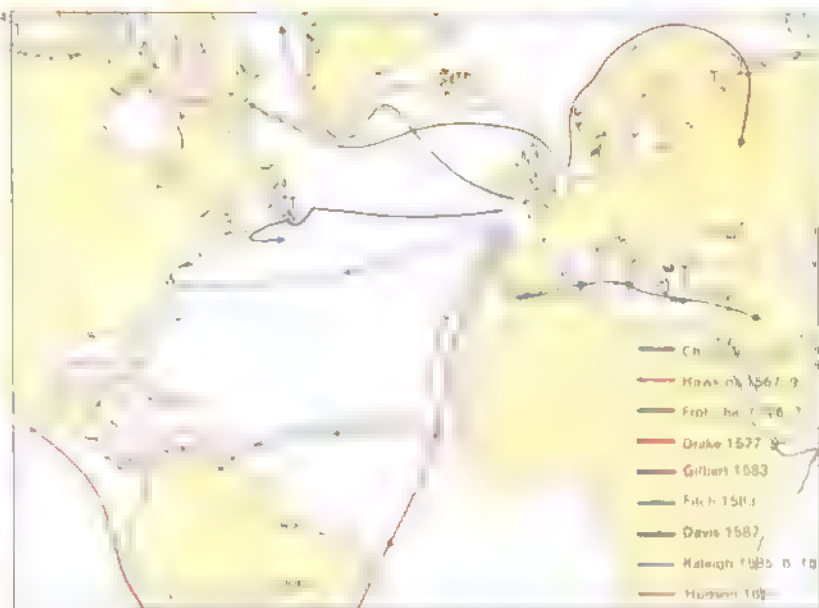


2 Martin Frobisher claimed to have found the elusive Northwest Passage in 1578, and a Cathay Company was set up to develop trade with China. The following year he thought he had discovered gold, and found backers for a new voyage to Greenland, almost unknown since the Viking voyages of the 10th century. He took some Eskimos, with whom he is shown fighting here, back to London, but the English climate killed them.

3 Navigational aids were vital for the success of ocean-going voyages and many navigation schools, such as Gresham College, were set up in Elizabeth's reign to teach sailors the new skills. These were

as important to fishermen as to explorers. As well as the astrolabe, developed by the Portuguese from Arab designs, but which was much easier to use on land than on a ship pitching at sea, even if only

innovations included Mercator's world map of 1569. Its projection allowed a compass course to be plotted as a straight line on a map. Another was John Davis's backstaff, which modified the cross staff.



4 English exploration did not get fully under way until after 1550. Thereafter the main purpose of the voyages was to find a route to the lucrative markets of China and South East Asia without infringing on the Spanish and Portuguese possessions.

sions that had been apportioned by royal bull in 1493. Thus the merchant companies such as the Muscovy Company sought to find new markets for English cloth in exchange for timber and other goods useful for the shipping industry rather than to

establish colonies
Few other expeditions proved as profitable to English industry although raw materials brought home included tobacco, potatoes and many minerals. But the hope for the Cathay market was never realized and home industry did

not profit from the American colonies until the 17th century. It was not until 1583 that Humphrey Gilbert attempted to set up the first permanent colony in the New World, in Newfoundland, but his expedition was destroyed by a storm.



Voyages to the Caribbean brought the English into contact with the Spanish Empire. In 1562 John Hawkins (1532-95) [5] took Negro slaves at Sierra Leone and sold them to the Spaniards at San Domingo. A second, similar, voyage in 1564 seemed to have established a profitable commerce, but in 1567-8 a Spanish fleet caught him at San Juan d'Ulloa and only two of his ships reached England safely. Hawkins then left the sea to reorganize the navy, but Francis Drake (c. 1540-96), who had been with him at San Juan, returned to the Caribbean and in 1572 sacked Nombre de Dios and captured a treasure-train there.

Later voyages

In 1577 Drake set out in the *Golden Hind* sponsored by the queen, to find a south-western route into the Pacific. Sailing through the Magellan Straits, Drake plundered unguarded coastal towns, claimed possession of California, turned west for the Moluccas, and returned home in 1580 via the Cape of Good Hope [6]. In 1586-8 Thomas Cavendish (1560-92) became the second

Englishman to sail round the world.

Anthony Jenkinson (died 1611) traded in central Asia. Ralph Fitch (fl. 1583-1611) traded with Akbar, the great Mogul ruler of India, and James Lancaster (c. 1590-1618) returned with booty from the East Indies. From such individual enterprises companies were formed to exploit the commercial gains, notably the East India Company (1600). But colonization to establish permanent settlements, rather than trading posts, grew more slowly. Its motives were commercial to obtain markets and raw materials, political to weaken Spain, religious, to spread God's word, and social to re-settle the unemployed. Humphrey Gilbert (c. 1539-83) died on a voyage to colonize Newfoundland, and his half brother Walter Raleigh (c. 1552-1618) was imprisoned in the Tower of London before his settlement of Virginia took root [9]. Seduced by legends of fantastic wealth, Raleigh sailed to the Spanish Main (northern South America) in 1595, and the failure of a second expedition in 1617-18 to find Eldorado, the mythical golden city of the Incas, resulted in his execution.



Francis Drake captured a Spanish treasure ship in March 1579 in the Pacific Ocean, in the course of his voyage round the world, and thereby

ensured the financial success of his trip. Sixteenth-century Spain depended on large shipments of gold and silver from the New World, and

their capture could be seen as a contribution to the defence of England and the Protestant faith. The expeditions also took home raw materials



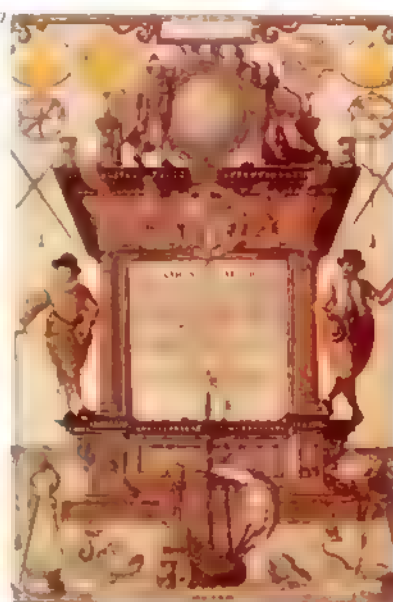
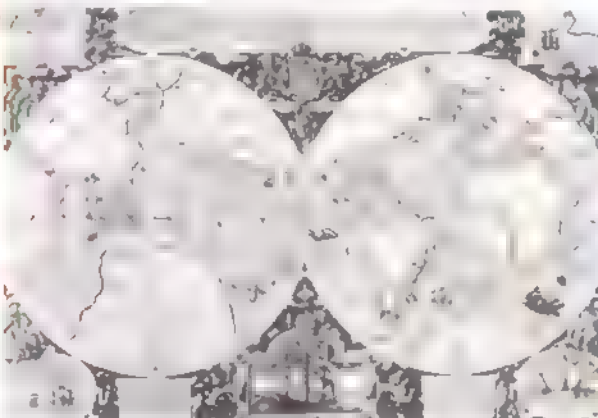
5 John Hawkins was the pioneer of the slave triangle that brought the wealth of English prosperity in the 18th century.

He later became treasurer of the navy and introduced many innovations in the design and manning of the ships.

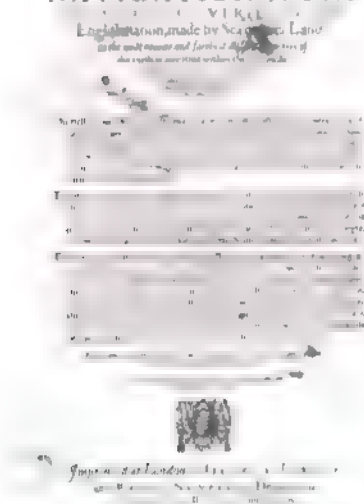
6 During his circumnavigation of the globe Drake crossed the Pacific from California to the Spice Islands. There he received a great welcome from the natives of the Moluccas, and

took aboard three tonnes of cloves. He also made an agreement with the Sultan of Ternate for future supplies of spices which were so highly valued that Drake preferred them to jewels.

7 *The Manner of the Mirror* (1587) was one of several works in English on geography and navigation dealing with its subject in a scientific rather than the fanciful way.



THE PRINCIPALL NAVIGATIONS VOYAGES



8 Richard Hakluyt the younger (c. 1552-1616) was a clergyman who taunted in France that the English had achieved little in exploration. He wrote *Principall Navigations* (1589-1600) to vindicate his countrymen by writing a detailed record of their voyages. Earlier he had written pamphlets to encourage settlers to go to Virginia. But it was hard to persuade investors to become involved in the new colonies, in which profits took far longer to accrue than in privatizing expeditions. The joint stock companies that were the usual form of investment meant that traders sought profits from single trips, not long-term adventures. But by 1600 permanent control of the East Indian trade seemed desirable.



9 The first settlements of Virginia were failures. Conceived of as a means to tap the vast resources of North America for England and to provide a safe market for English cloth, they were organized by Walter Raleigh (who never went to Virginia himself) and were commanded by Richard Grenville (c. 1542-91). Two expeditions, in 1585 and 1587, were sent and established on Roanoke Island, but as a result of the climatic extremes and Indian hostility the first returned home with Drake after one winter and the second disappeared without trace. Each comprised more than 100 men and women, but Francis Bacon called them 'the scum of people and wicked condemned men'.

Elizabethan art and architecture

England in the later sixteenth century was artistically isolated. The primary reason for this was Henry VIII's break with the Church of Rome in the 1530s, which made cultural contact difficult with the leading artistic countries - Italy, France and Spain - all of which were Catholic. The English did develop their own strong and original character, even though many leading artists and craftsmen were foreigners, often religious refugees. The main art forms were portraiture and country house architecture.

Holbein and English portraiture

In the 1530s the German painter Hans Holbein (1497-1533), one of the outstanding Northern European artists of his generation, settled in London. There he produced an unforgettable image of the king, was widely employed to paint portraits of courtiers and even commissioned by his royal master to record the features of prospective wives [1]. Holbein combined boldly economical design and virtuosity in depicting rich costumes with an astonishing power to recreate the physical presence of his sitters.



1 Hans Holbein, the German portrait painter, was in England 1526-8 and 1532-43. His art was vividly realistic. This work of 1538 shows Princess Christina of Denmark when she was 17, and being considered by Henry VIII as a prospective bride. The full-faced view gives the clearest and least flattering impression of her looks. Holbein's style was popular until 1600.

So popular was his style that he set his stamp on English portraiture throughout Elizabeth's reign. Elizabeth herself, acutely aware of the power of the visual arts, allowed only certain images to be used in her pictures. Many portraits of the queen made for the most striking and symbolic of her favour [Key].

Only in miniature painting did Holbein find worthy successors. Nicholas Hilliard and Isaac Oliver (died 1617) raised this art form to European pre-eminence. The conceits and metaphors of the Elizabethan poets have their parallel in the miniature, with its symbolic language of love [2].

Tudor architecture

A similar strain of fantasy on an incomparably greater scale than in the miniature can be found in the Elizabethan "prodigy houses." Henry VIII's palace of Nonsuch, Surrey [3], introduced a novel flamboyance to domestic architecture. The decoration of its external walls, stucco figures in relief set between panels of slate, was the work of

French craftsmen who had previously been employed by Francis I at Fontainebleau.

Briefly, during the 1550s, the Duke of Somerset, Protector to Edward VI, and several of his political associates, introduced a more serious classicism: first in Somerset House, London (1547-52), and then at its country seat, John Thynne's Longleat, Wiltshire, which gained its present form in the 1570s. Later Elizabethan architecture, however, developed towards an unclassical preoccupation with striking silhouettes, dramatic projections and recessions of mass, enormous areas of glass, and strapwork ornament. Wollaton [5] and Hardwick (1590-6) halls, both designed by Robert Smythson (c. 1536-1614), as well as such Jacobean mansions as Bramhall, Hatfield, and Audley End, all have this bizarre and inventive character. Some, such as Longford Castle [4], have symbolic forms.

Many magnates who built prodigy houses were impelled to such extravagance by the prospect of entertaining the queen, whose annual progresses took her far and wide through her kingdom. Richly decorated



3 Nonsuch Palace, Surrey (built 1538-47) was the most extraordinary palace that

Henry VIII built or enlarged. The life-sized stucco figures of gods and heroes

set the fashion for Elizabethan plasterwork. Nonsuch was demolished in 1682-3.



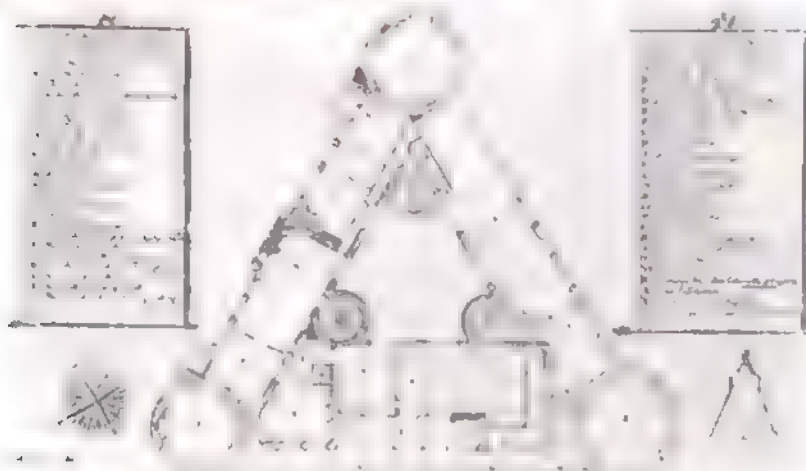
2 Nicholas Hilliard (c. 1547-1619) was the finest Elizabethan miniaturist. Portraits in small, often richly jewelled cases were given and worn as love tokens. This "Unknown Man", his shirt in loose disarray and anguish in his eyes, is tormented by the fires of love. Hilliard believed that miniature portraits were too small to allow the painter to use painted shadows and modelling.



4 The plan of Longford Castle, Wiltshire (1580) in the form of a triangle with a round tower at each corner symbolizes the Trinity: God the Father, Son, and Holy Ghost. Such houses were designed rather for ceremonial forms of life than for comfort.

5 Wollaton Hall, Nottingham, built in 1580, was designed by Robert Smythson for Francis Wolloughby, a great landowner of the Midlands and an early coal magnate. Set on a hilltop and flaunting towers of bizarre outline and a great central bel-

vedere, Wollaton Hall epitomizes the self-confidence of the last years of the reign of Elizabeth. Although it has prominent classical pilasters, there is no classical spirit of balance and proportion. Few 16th-century architects' names are known today.



rooms were required, and plasterwork white or picked out in heraldic colours, polished marbles, alabaster and stones, and even stained glass, all contributed to the effect of dazzling sumptuousness. The chimneypiece [7] usually carried the most elaborate concentration of carved ornament. By the late sixteenth century the great hall was beginning to lose the importance it had possessed in medieval times and more private rooms for the family, in particular the great chamber and the long gallery, had more attention lavished on them [6].

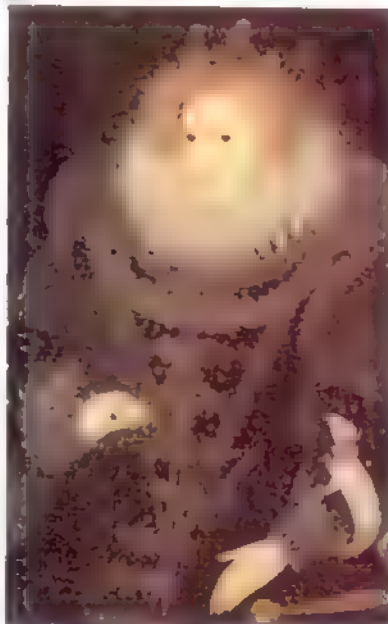
Sculpture and the applied arts

Another opportunity for an elaborate display of sculpture was the funerary monument [8]. Many imposing Elizabethan monuments survive, brilliant with heraldic colours and gilding. Artistically the best of these sculptures were fashioned by immigrants from the Low Countries – men such as Cornelius Cric (died 1607) and Maximilian Colt (flourished 1600–45) whose best known works are the monuments of Mary, Queen of Scots and Elizabeth I respectively in Westminster

Abbey. In general, however, the standard of Elizabethan figure sculpture was low. This mattered little because contemporary taste was universally naïve, delighting in rich textures, intricate detail and garish colouring.

The Tudor period was the heyday of the jeweller and goldsmith. Foreign articles were readily obtainable in England, and there is no clearly definable English style. Only miniature painting, considered a form of jewellery (Hilliard was himself a goldsmith by training and probably designed the settings for many of his miniatures), is an exception. Among full-scale goldsmith's plate, the most typically English was the standing salt [9]. Even Holbein designed such salts as well as other kinds of plate and jewels.

During Elizabeth's reign the arts in general had a hesitant start that was affected by the political and religious uncertainty of the 1560s, but developed greater and greater confidence. They did not reach their fullest flowering until the early years of the seventeenth century, when a monarch prepared to lavish patronage on the arts had taken the place of a parsimonious one.



The Ermine Portrait of Elizabeth I (1558-1603) was painted by either Nicholas Hilliard or William Segar in about 1585. Portraits of the queen were commonly produced for the houses of the nobility, and they often included literary or poetic symbolism. In this work, the ermine is intended to denote purity, virginity and chastity, and the rubies on her necklace come from the Crown Jewels. Such portraits contributed to the assumption by Elizabeth of mythical status during her lifetime. Many other symbols were used in other paintings: a rainbow in one work was accompanied by the words 'No rainbow without the sun', and there were eyes and ears in her clothes.



6 The long gallery such as this one at Hatfield House, Hertfordshire, was a typical feature of the houses of Elizabethan nobility. Many were built in the roof space of the house and had good light and views. Long galleries were used for exercise in bad weather and to display collections of portraits in a sumptuous environment.



7 The ballroom of Knole House, Kent, has a rich chimney piece of variously coloured marble and alabaster, shown here, and a marble frieze in high relief of grotesque figures, very much affected by the giant and barbaric splendour. The house was remodelled internally for the Earl of Dorset in 1605-8.

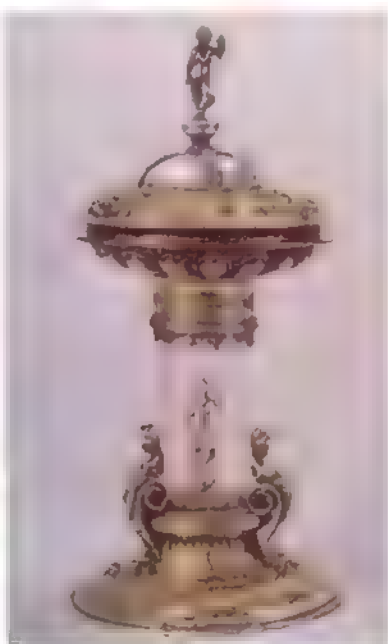


8 Funerary monuments, such as this one of Thomas Gresham (d. 1579), a merchant and founder of Gresham's Exchange, London, were objects of great

expenditure for many Elizabethans. This one, built before Gresham's death, cost him £800. Its free-standing tomb chest of traditional

form is remarkable for the purity and restraint of its classical decoration, qualities rare in Elizabethan art. Often funerary monuments included portrait sculpture

of the dead man kneeling in prayer with his wife and children. Such portraits were stereotyped but their setting was luxuriously decorated.



9 The standing salt, such as this example made in 1549, was a decorative object for the dinner table with its utilitarian purpose disguised. Precious materials, laborious workmanship and bizarre forms all held a fascination for Elizabethans. Jewellery and objects made of gold were easily portable and made good gifts, as a result European style was more uniform in this medium than in any other in the 16th century. Nevertheless the standing salt was peculiar to England. Goldsmiths were legally bound to stamp each piece with the date, the place where it was made and the maker's initials, but unfortunately the key to Elizabethan marks has been lost.

English Renaissance literature

The new learning of Italy in the fifteenth century rapidly spread northwards and was promoted in England by the so-called "Oxford reformers", the humanist scholars John Colet (c. 1467–1519), William Grocyn (c. 1446–1519) and Thomas Linacre (c. 1460–1524). Traditional learning had undergone a change of purpose: it was no longer primarily aimed at elucidating the truths of the scriptures but, through the study of classical philosophy and history, at training future leaders in the arts of government. This reorientation was first summarized in *The Book Named the Governor* (1531) by Thomas Elyot (c. 1499–1546).

Translations from the classics

The new learning also promoted a great output of original works in Latin – from *Utopia* (1516) by Thomas More (c. 1478–1535), a tract on ideal politics and government, to *Novum Organum* (1620) on the ideal of education by Francis Bacon (1561–1626). Scholarly writing in Latin reached only a small audience and therefore translations from the classics, such as Thomas

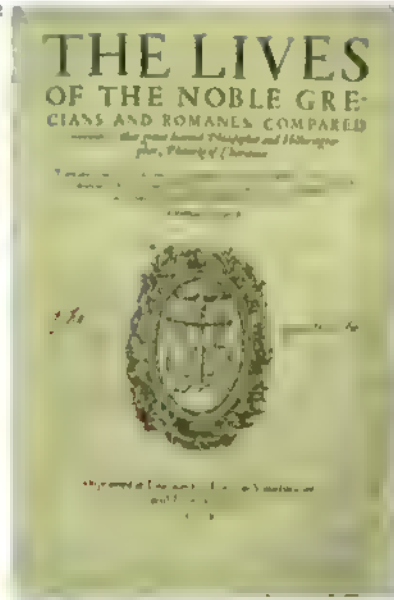
North's version of Plutarch's *Lives* (1579) [2], became common. Imitation, although not in the sense of slavish debasement, was another important aspect of the literature of the century. The brilliance of the Italians Francesco Petrarca (1304–74), Giovanni Boccaccio (1313–75), Ludovico Ariosto (1474–1533) and, later, Torquato Tasso (1544–95), was quickly taken as a model. Thomas Wyatt (c. 1503–42) and the Earl of Surrey (c. 1517–47) both distinguished themselves in their sonnets based on the pattern devised by Petrarch. It was the beginning of a great age of English poetry that continued through Spenser, Sidney and Shakespeare to the seventeenth-century poets Robert Herrick (1591–1633), Richard Lovelace (1618–57), Andrew Marvell (1621–78), John Donne and John Milton. All kinds of poetry were produced during this extraordinary period – from the long romances such as Spenser's *The Faerie Queene* (1589–96) and the great epic *Paradise Lost* (1667) by Milton, to brief, gem-like lyrics from French and Italian models that were

intended to be sung [1]. The greatest poets of Elizabeth's reign were Edmund Spenser and Philip Sidney (1554–86), whose collection of sonnets *Astrophel and Stella* shows great mastery of the Petrarchan form. Spenser's main work, *The Faerie Queene*, was a long romance with allegorical overtones. During this period there were also many anthologies such as Tottel's *Miscellany*, *The Paradise of Dainty Devices* and song books compiled by eminent musicians such as William Byrd (1543–1633) and Thomas Morley (c. 1557–1603). In drama the revival of Greek and Latin learning introduced new classical elements. The old morality play had culminated in the plays of Christopher Marlowe (1564–93) whose three great tragedies, *Tamburlaine the Great*, *Doctor Faustus* and *The Jew of Malta* are studies of heroic power and the vices that such power brings with it. The Senecan influence. With the new learning, the Latin playwright Seneca (c. 4 BC–AD 65) became a favourite model for tragedy. Here were introduced the

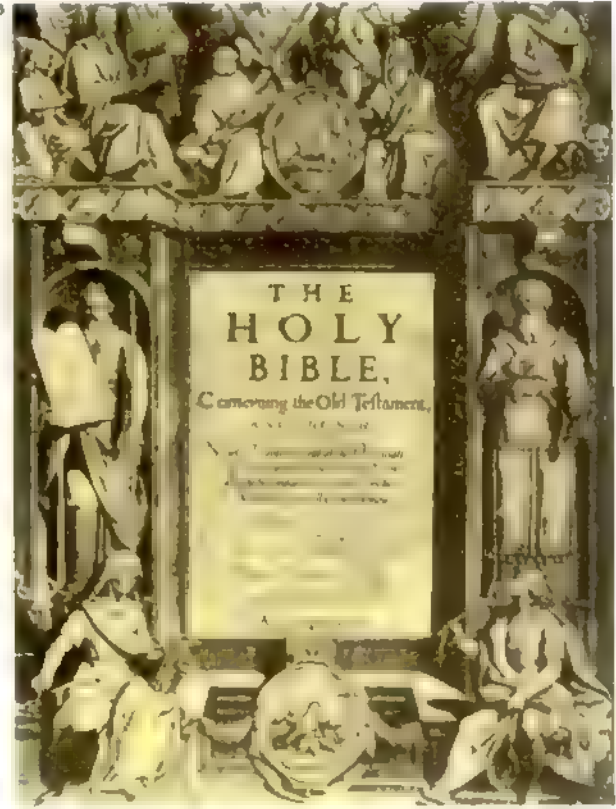
CONNECTIONS

1 The lute, a stringed instrument played by plucking with the fingers, characterized music of Elizabethan times and English lutes were prized throughout Europe. Because singing was such a

favourite entertainment at court, a normal gentlemanly accomplishment was the ability both to write his own songs – including lyrics – and to perform them to the accompaniment of his own lute.

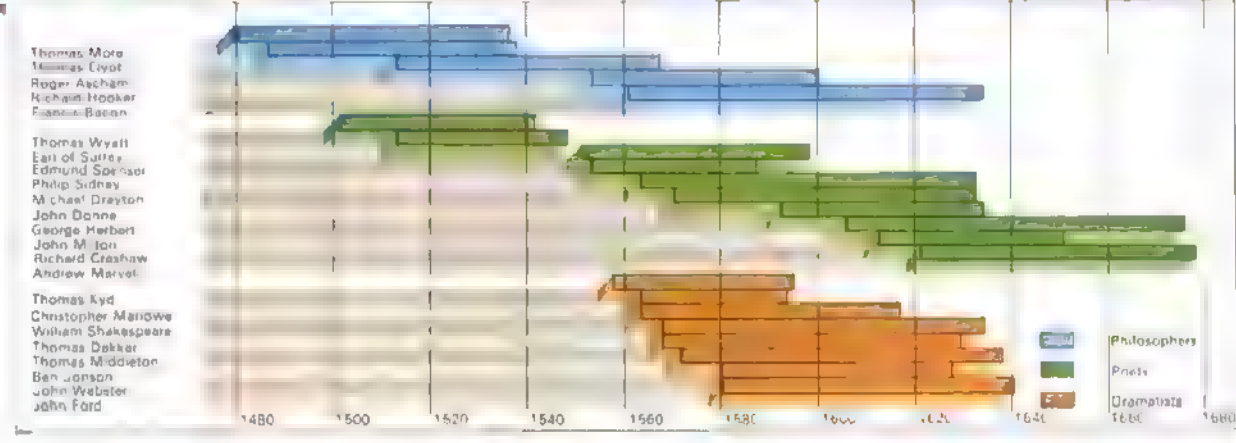


2 Plutarch's *Lives* was translated into English in 1579 by Thomas North (the frontispiece is shown here). It provided one of the main sources for plot and character in the Roman plays of Shakespeare.



3 The authorized King James version of the Bible, based on earlier work by William Tyndale and Miles Coverdale, was produced in 1611. It is one of the great monuments of English literature in itself.

4 This chronological diagram shows the development of various forms of writing in the golden age of English literature that embraced the Tudor and Stuart periods. The interpreters of the new learning of the Italian Renaissance predated the dramatists and poets but all three reached a peak in the late Elizabethan period, which was sustained throughout the 1600s. Drama's achievements were most concentrated in time between 1580 and the Civil War.



themes of vengeance and retribution, with accompanying horror and violence, also stage mechanics to provide surprises.

The earliest English tragedy in the manner of Seneca was *Gorboduc* (1561) by Thomas Norton (1532-84) and Thomas Sackville (1536-1608). It started a tradition that culminated in *The Spanish Tragedy* (1592) by Thomas Kyd (1558-94), in which the Senecan elements are enlivened by a modern setting, stage devices and highly individualistic characters. In comedy the Latin influence of Plautus and Terence was of the greatest importance, as can be seen in two of the best early plays, *Ralph Roister Doister* (c. 1553) by Nicholas Udall (c. 1505-56) and *Gammer Gurton's Needle* (1575) by William Stevenson (died 1575).

English Renaissance literature is dominated by William Shakespeare. His earlier plays are adaptations of models in vogue; later comedies show a greater complexity in character and plot, as do the cycles dealing with kingship. Then come the great tragedies followed by the very complex *Cymbeline*, *The Tempest* and *The Winter's Tale*.

Shakespeare's great successor was Ben Jonson (c. 1572-1633) who developed a series of characters of outstanding force especially in *Volpone* (1607). He also exploited the masque [6], which incorporated mythology, courtly life, folklore and satire. In purely literary terms the masque found its highest expression in Milton's *Comus*.

The Metaphysical poets

The group of poets who flourished in the first half of the seventeenth century are known as the Metaphysical poets. Their language was complex and double-edged, their subject matter contained the pious, the amorous and the reflective. They included Herrick, Lovelace, Marvell and Donne [7].

John Milton [Key] was the greatest poet of the seventeenth century and his master piece was the epic *Paradise Lost* [8]. Divinity, the moral and theological concern of the Church, was thus once again in the forefront of English writing. But from now on it was to be tempered by the study of man's character in his own right not merely as the creation of an almighty God.



The greatest figures of English Renaissance literature were William Shakespeare (1564-1616) [A], John Milton (1608-74) [B],

and Edmund Spenser (1552-99) [C]. Spenser wrote mainly lyric poetry in a sensuous style. Shakespeare is the

greatest verse dramatist in English history, and Milton stands as the unrivalled master of English epic poetry.



5 The Globe theatre was probably the largest in London in the late sixteenth and early seventeenth centuries. It was the golden age of English popular drama: the theatres, in total, attracted an estimated weekly audience of 21,000. The audiences consisted of ordinary people in the 'pit' while the wealthy sat in the 'orchestra'. A protruding stage brought the audience into intimate contact with the action. Scenery was scant, though, and effects relied on imagination and context.



6 The Masque of the Augurs was designed and the sets built in 1622 by Inigo Jones (1573-1652). The masque shows the intimacy between architecture, theatre and music. It was an aristocratic, exclusive and purely courtly art, often containing disguised political references. The masque was of Italian origin and was an ancestor of modern opera. Even though pageants were not written dramas, they have been recorded in designs, drawings and music.



8 'The Battle of the Angels', from an edition of Milton's *Paradise Lost* reflects his interpretation of life as a struggle between the forces of good and evil that goes back to the first catastrophic fall of the rebel angels. Milton's interpretation was probably fostered by his experience as a supporter of Cromwell in the Civil War. His struggle was permanent and intense for a man as aware of the attractions of life and nature as was Milton, and he evoked the conflict in language that is at the same time exalted, heroic and yet direct: 'A dungeon horrible, on all sides round / As one great Furnace flam'd yet from those flames No light, but rather darkness visible / Served only to discover signs of woe.'

7 John Donne (1572-1631) was the most famous 17th century Metaphysical poet. He was a soldier, courtier, noted lover, preacher of distinction and later dean of St Paul's. A passionate sensualist, his use of language was refined, philosophical and complex. A world of emotion was pared down and paralleled in images that have the most reflective of origins. Rich in both passion and cynical humour, there remains a basic piety. "Nor thou nor thy religion dost controule / The amorousness of an harmonious Soule. But thou wouldst have that love thy selfe. As thou / Art jealous now, / Thou lovest not till from loving more, thou free / My soule."



Shakespeare and the Elizabethan theatre

William Shakespeare (1564-1616) [1] was born in the prosperous market town of Stratford-on-Avon, Warwickshire, where his father, a glove-maker, served on the local corporation and rose to become bailiff or mayor. Little is known about William's early life, apart from the fact that in 1582 he married Anne Hathaway (1555-1623) from the nearby village of Shottery [Key]. In 1583 they had a daughter, with twins following two years later. The next record of him is in 1592 when Robert Greene, a rival dramatist, complained of him as an 'upstart crow' common actor who had the impertinence to be writing plays.

Actors and theatres

English drama developed from the miracle and morality plays, mostly performed by the craft guilds in the larger towns, although groups of professional actors had begun to play in market-places and inn yards. In 1576 James Burbage, a carpenter, built England's first permanent theatre. It was in Shoreditch, London, for the exclusive performance of plays and leased to the acting

company of which his two sons [7], and later Shakespeare, were to be members.

The life of an early player was far from easy but a permanent theatre was a real advantage for the actors. Unless he had a patron, he could be prosecuted as a masterless man and a vagabond. Shakespeare's company was known as the Chamberlain's Men and, after 1603, as the King's Men. Public theatres were disliked by the Puritan preachers of the time, and also by the magistrates, who saw them as breeding grounds of riots, disease and prostitution. Frequently they were shut down, and strict regulations were imposed on their activities. Many theatres were also used for bear-baiting and prize-fighting as well as the production of dramas.

When the lease of the Shoreditch theatre expired in 1597, the company moved across the Thames to Surrey, where the authorities were less strict, and there built the famous Globe Theatre [2]. They were followed by their great rival, Philip Henslowe (died 1616), the business manager of the Admiral's Men, who built the Fortune Theatre to

the same specifications. In Edward Alleyn [5] he had a fine tragedian - his style is belatedly by the Player King in *Hamlet* - and, although there were other companies and other theatres, the competition between the Chamberlain's Men and the Admiral's Men stimulated artistic achievement. Henslowe's company had a success with a play, now lost, about Robin Hood; this was answered by Shakespeare's *As You Like It*. Shakespeare's constant working relationship with his company makes it highly unlikely that his plays were written by Bacon or by anybody else, as has been suggested.

Shakespeare's plays

Nobody really knows in which order Shakespeare wrote his plays. There seems to have been an early period of experiment, with varied results, and this was followed by the historical period, in which Shakespeare bade Englishmen look into their past as a guide to their present. After this came the golden comedies of his maturity. With the new century came the tragic period, during which even the comedy has an acrid taste and air of

CONNECTIONS

See also

English Renaissance

1592

1597

1603

1616

1623

1644

1650

1660

1670

1680

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1940

1950

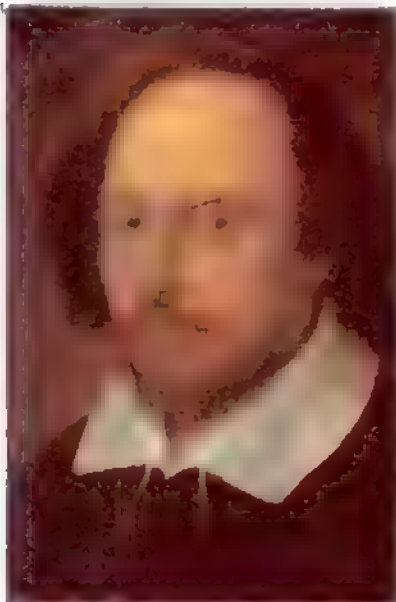
1960

1970

1980

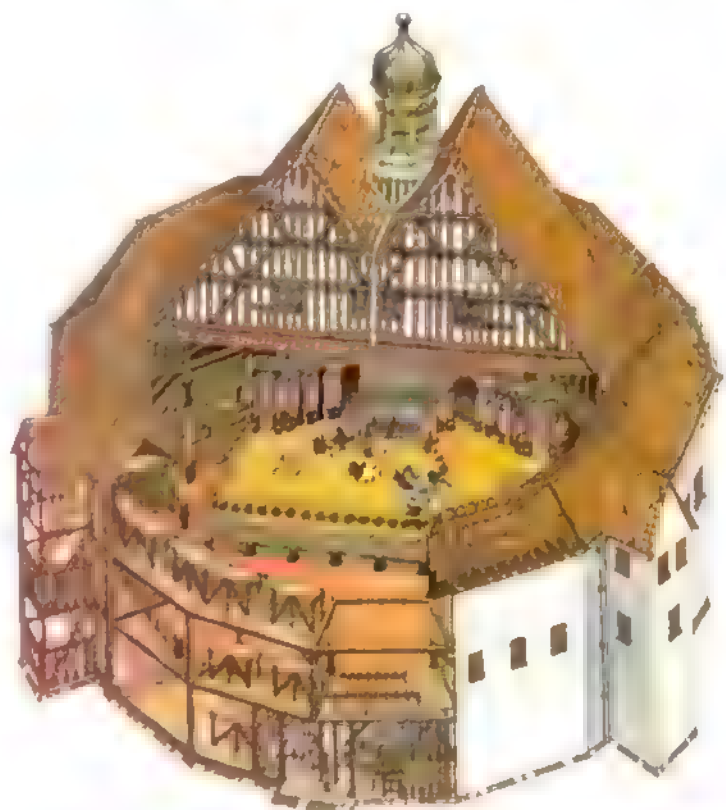
1990

2000



1 Shakespeare is renowned for his non-dramatic poetry and more especially for his sonnets, which were probably written in the 1590s. The identities of the people to whom these poems were addressed (W.H. and the dark lady) are a mystery. A common theme is death transcended by love and art.

2 The Globe Theatre stood in this form between 1613 and 1644. It was a tiered and brick-built three-storey structure surrounding an uncovered yard where the poorer patrons could stand for a penny. It was a small building with a diameter of only 25m (83ft) but with its galleries it could hold 2,000.



3 Henry V, as portrayed by Laurence Olivier (1907-1969) in the 1944 film, was an attempt to show the king and condottiero in the Elizabethan

theatre. Addition to presenting this most stirring heroic play, it reproduced the open stage, the quick reactions of

the audience (some sitting on the stage, the boy actors and the frantic congestion backstage). Later scenes depicted the war in France.

4 Stratford Grammar School was founded in 1427 to provide a free education for the children of local guild members. It was closed in 1547 but it reopened six years later with a charter from Edward VI. The school provided the usual education in the classics and it is likely that Shakespeare attended lessons here, even though Ben Jonson once jibed that Shakespeare knew little Latin and less Greek. Otherwise he may have been a page in the house of a local nobleman.



disillusionment. Finally, there are the romances, with their promise of regeneration. These plays were more intimate and less rhetorical, partly because in 1608 the company obtained a new theatre at Blackfriars. This was an indoor winter theatre, with a much smaller audience capacity and higher prices than at the Globe. By this time Shakespeare was spending most of his time in Stratford. In 1597 he bought New Place, the handsomest property in Stratford. He earned nothing directly from his plays because they belonged to the company, but his share of the theatre profits made him a relatively wealthy and respected man.

Shakespeare's achievement

Ben Jonson (1572-1637) [8], who created the English comedy of humours, was perhaps a little too pedantic and intellectual for the common taste, but in his youth he was as fiery as Marlowe. In 1598 he narrowly escaped the gallows for killing Gabriel Spenser, a fellow actor of Henslowe's company, in a duel.

Among Shakespeare's other rivals George Chapman (c. 1559-1634), translator of Homer, aspired to philosophical tragedies that are somewhat over-rhetorical. The citizen comedies of Thomas Dekker (c. 1572-1632), Thomas Middleton (1570-1627) and Thomas Heywood (c. 1574-1641), who claimed to have had a hand in 220 plays, were popular with London audiences drawn from all classes. In the first decade of James I's reign, John Webster (c. 1580-1625) produced his powerful tragedies. With the invariably happy endings, the romantic tragicomedies of Francis Beaumont (c. 1584-1616) and John Fletcher (1579-1625) marked a decline into triviality that lasted until the Restoration (1660).



Hewlands, or Anne Hathaway's Cottage the place where Shakespeare's wife was born, is situated

in Shottery 1.5 km (1 mile) from Stratford and is a highly popular tourist attraction. Shakespeare is

probably the world's best known playwright and his works have been translated into most languages.

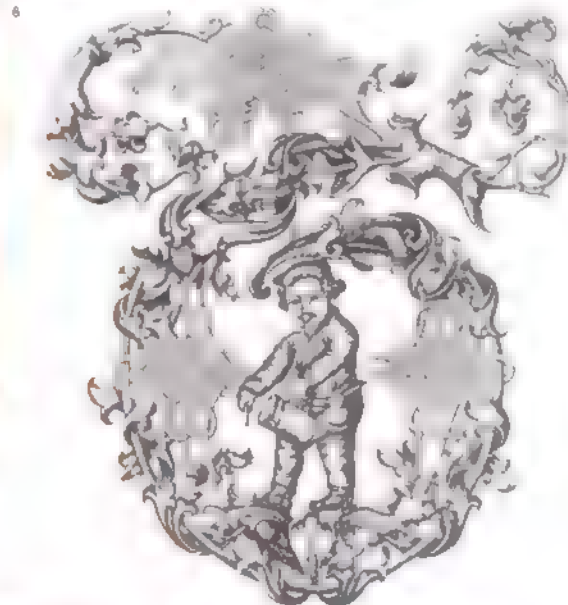
Marlowe and Jonson

The early death of Christopher Marlowe (1564-93) removed the only rival whose genius might have shone as brightly as Shakespeare's. Marlowe, who worked for the Admiral's Men, was stabbed to death in a tavern brawl at Deptford, leaving behind a rich legacy of drama. The development of blank verse and the use of tragic themes in these plays prepared the theatre for Shakespeare's achievement.



5 Edward Alleyn 1566-1626, was a great and popular tragedian, equal to Richard Burbage. He joined the Earl of Worcester's players when he was 19, but his best period came when he joined

the Admiral's Men under Philip Henslowe. Later his father-in-law. Together they were proprietors of several playhouses. Alleyn retired a wealthy man in 1604 and founded Dulwich College in London.



6 Richard Tarleton who died penniless in 1589, was the principal comedian of the Queen's Men. He was a great favourite with Elizabeth and he was depicted as Yorick in Hamlet.

7 Richard Burbage (c. 1576-1619) was the son of the man who built the first playhouse at Stratford. At Shakespeare's great tragic roles were written for him, the finest actor of his day.



8 Volpone, one of Ben Jonson's finest plays, is shown here in a production at the National Theatre, London. Many of his plays were successful although based on classical models. As well as being attached to Henslowe's company, Jonson was

a success at the court of James I, and wrote many masques. He admired Shakespeare although complaining that he wrote by nature rather than by art, and he wrote an affectionate tribute to him in the First Folio edition of Shakespeare's works (1623).

9 First performances of the plays of Shakespeare. Marlowe and Jonson have likely dates ascribed to them in this diagram. Together these three men elevated the status of the playwright from one of mere scribbler or hack to that of man of letters.



looked like appeasement of Catholicism [6]. Although James was personally a convinced Calvinist, he flirted with the growing High Church or Arminian faction in the Church which stressed ceremony, tradition and episcopal authority. To most Englishmen, Arminians seemed little better than Catholics and the king's toleration of them looked extremely dangerous [Key 8].

Charles and the rise of opposition

Charles I (reigned 1625-49) [7], unlike his father, asserted his authority without regard for his dependence upon the co-operation of his subjects. In the Book of Orders, 1633, he attacked the local autonomy of the JPs insisting on a uniform performance of their duties. Autocratic rule by the Earl of Strafford [9] in Yorkshire and Ireland seemed ominous for the country at large. Charles's archbishop, William Laud (1573-1645) imposed Arminianism on the Church in many areas including Scotland in 1637. Immoderate opposition in the House of Commons in 1629 impelled Charles to rule without Parliament. Ship Money, an occasional local rate

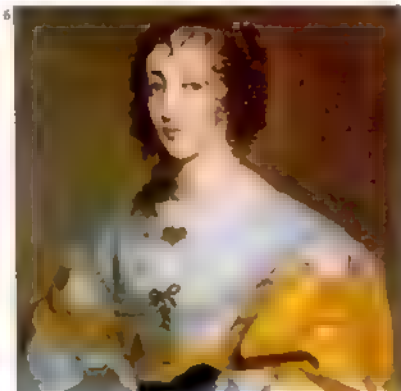
became a nationwide annual tax in the 1640s, extending taxation to yeomen and freeholders, hitherto largely exempt.

Although Charles increased his income to a million pounds a year, this was insufficient to oppose a rebellion against Laud in Scotland in 1639. Appeals for money were turned down, JPs refused to act and the forces raised by Charles mutinied. The Scots occupied northern England, and to pay their wages off Charles was forced to call Parliament for the first time in 11 years.

The Long Parliament (1640-60) called after the Short Parliament (1640) failed to support Charles, was at first overwhelmingly traditionalist and quickly destroyed the alleged novelties of Charles I's "personal rule". A rebellion in Ulster in October 1641 forced Parliament to choose between trusting Charles with an army or insisting on revolutionary constitutional limitations before finding the money to quell the revolt. Puritanization on the need for guarantees or the dangers of constitutional change, which would imply social change, split the political nation and led to the outbreak of war.



Preaching was the principal means of influencing public opinion or spreading information in the 17th century. Charles I said: "People are governed by the pulpit more than the sword in times of peace." The regulation of sermons and religious lectures was an area of dispute between the Puritans and the Church of England, especially for Arminians. St Paul's Cathedral was the principal preaching place in London and was carefully controlled by the government. Social and political tensions were often expressed in theological disputes.



5 John Eliot (1592-1632) once a protégé of Buckingham, he became outspoken opposition to Charles's policies. He criticized government negatively and advocated the right of kings.

6 Henrietta Maria (1609-69) a French princess married Charles in 1625. The match was unpopular especially because he tolerated her Catholicism. She was a court faction against Laud and Wentworth.



7 Charles wore this elaborate costume in January 1640 in the masque Salomon's Spoils at a time when Scotland was in rebellion. It was a blue cloth embroidered with silver, white stockings, a silver cap and white feathers. The isolated culture of the court symbolized by these inigo Jones masques and Charles's patronage of such artists as Rubens and Van Dyck presented the image of Charles the embodiment of a new age, a new style, a new age. But in this 1640 masque performance he played the Piston king responding to adverse times with endurance and patience, a new image of himself that he retained until his death in 1649.

8 March 1512. Every plant which must be cut by Easter be cut and planted should be rooted up.



See, here are three men, standing in degrees. The left of these, the poorest, ought to be

The other two, of men and of the Devil, Ought to be rooted out for ever.

9 This religious cartoon sets the orthodox Anglican cleric holding the Book of Common Prayer alongside the papal priest with his Devil-inspired superstitions.

10 The cartoon shows the Anglican cleric holding the Book of Common Prayer alongside the papal priest with his Devil-inspired superstitions.

strength in the 1630s. So, as well as questioning the king's right to command an army for Ireland and Long Parliament also challenged the validity of episcopal authority in general.



9 Thomas Wentworth Earl of Strafford (1593-1641) was a critic of Buckingham in the 1620s, but entered Charles's service

in 1628, feeling that the Commons might undermine royal authority. He was made the scapegoat for the king's policy in Ireland. He was executed in 1641.

10 The cartoon shows the Anglican cleric holding the Book of Common Prayer alongside the papal priest with his Devil-inspired superstitions.

ized pressure group increasingly threatened the king. Wentworth's execution was a victory for the

The English revolution

The English revolution (1640–60) was the first of the modern revolutions and it compares closely in many ways with the French and Russian revolutions. Each point of revolution follows a similar pattern, but some common stages can be identified.

The revolutionary pattern

These stages include an initial period of political and social development, with the collapse of the old regime, the emergence of a radical leadership as the political crisis becomes protracted, an eventual halt to the leftwards movement of the revolution, the consolidation of power by a strong-arm and often military-based party and a return towards political stability, and sometimes a formal restoration and a collapse of the revolutionary movement. These stages can be seen in the English, French and Russian revolutions, with the manifest exception that in Russia there has been no restoration of the Romanov dynasty.

The first stage of the English revolution was the constitutional or "bloodless"

revolution of 1640–41, which weakened the old absolutist regime. It began in November 1640 when Charles I called Parliament. The Long Parliament, which began in 1640, was a crisis. Charles I's attempt to impose a new tax without the consent of Parliament was deeply unpopular. It was forced to agree to a wide range of constitutional reforms that gave Parliament a much more prominent place in the constitution. These changes were accompanied by major political settlement and debate, especially after the ending of press censorship in July 1641.

The escalation of the crisis

The second stage saw the revolution move leftwards as the political crisis escalated into civil war. The Long Parliament split into two parties in the autumn of 1640. The Levellers (Cavaliers) forming a King's party of opposition to the Parliamentarians (Roundheads) who were prepared for further political and religious reforms. Charles I attempted unsuccessfully to arrest his main opponents in January 1642 and then fled from London. He thus entered the first civil war (August 1642–April 1646) from a weakened position,

because the Parliamentarians held London and the machinery of central government. The Parliamentarians were not, however, able to exert their dominance until the reorganisation of their forces into the disciplined and zealous New Model Army in January 1645. This successfully harnessed militant Puritanism to the Parliamentarian cause. The army, ably directed by Sir Thomas Fairfax and Cromwell, won a decisive victory over the Royalists at Naseby in June 1645.

The third stage marked the progress of the leftwards movement of the revolution. The victorious Parliamentarians themselves split at the time of their success in 1646 and 1647. The more conservative group were the Presbyterians, who, together with the Scots, then allied themselves with Charles. The more radical party, the Independents, backed by Oliver Cromwell (1599–1658) [8] and the army, attempted a settlement, failed and remained hostile to Charles. The second civil war (February–August 1648) was a brief but bitterly fought contest, which ended with Cromwell's overwhelming defeat of the Scottish army at Preston in August 1648.

CONNECTIONS

See also



1 Parliament was a well-established institution before 1640 with its own traditions, procedures and privileges. In the House of Commons chamber there were a Speaker and two Clerks. The members of Parliament (MPs) were elected by the voters.

2 In the first civil war the Royalists were strongest in areas close to London in the north and west, where the Parliamentarians kept the capital and the populous south-east, fighting for lower tax control of divided areas.



3 The elegant portrait of Charles I by Anthony van Dyck concentrated on the king's small stature to emphasise his ego. The king's portrait by van Dyck was the most famous portrait of Charles, who was a famous art patron.



4 The end of press censorship in 1641 brought a flood of pamphleteering and debate. All political



ideas were opened to discussion and argument. Before long, moderates on the Parliamentary



side called for caution in reform, stressing the Aristotelian "golden mean". They warned of the

"new extreme" among radical political and religious groups as much as the "old extreme" of the monarchy.

It was followed by the purge of Parliament (Pride's Purge) in December 1648, the trial and execution of Charles on 30 January 1649, and the abolition of the monarchy and House of Lords in February of that year – a sequence of events that was unprecedented in European history.

At the same time Cromwell and the army leadership broke with the lower-class radical political party, known as the Levellers [6]. They pressed for fundamental constitutional changes, implicitly challenging the political and social power of landowning society. In the autumn of 1647, the Levellers briefly challenged Cromwell for control of the army itself. But Cromwell decided to crush the movement. A Leveller army mutiny was defeated at Burford (Oxfordshire) in May 1649. Deprived of its army base, support for the Levellers rapidly waned. But the difficulty of Cromwell's position – sandwiched between left and right – was accentuated: he was a regicide, as well as the man who had broken the Levellers.

The fourth stage represented the gradual return to political stability. The New Model

Army was, in the 1650s, a force of more than 60,000 men. The importance of its power was shown in the brutal suppression of the Irish rebellion (1649–50) and the routing of a further Royalist uprising (1650–51).

Cromwell and collapse of army rule

Cromwell proved the most successful ruler (1653–8) because he was both a skilled politician and a brilliant general. His regime had some foreign policy successes, such as peace with the Dutch in 1654 and victory over Spain (1656–8), but this system did not last long after his death in 1658.

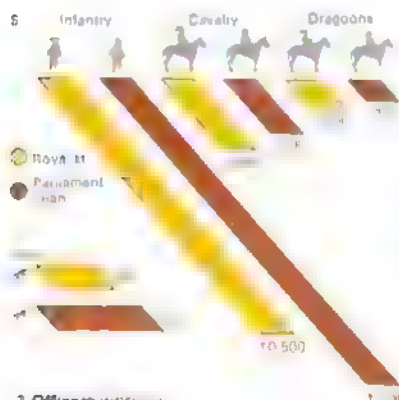
The fifth stage in the revolution therefore saw an initial period of political confusion with the collapse of army rule, followed in due course by the restoration of Charles II (1630–85) in May 1660 at the invitation of the Convention Parliament. The restored monarchy [9] was much weaker than it had been previously, and it was the landowning gentry as represented in Parliament who were the ultimate victors of the English revolution, ensuring the permanent end to absolutist monarchy.



The civil wars marked a breakdown in ordered political and social life and animosities heightened during the fighting. There were not only political and religious divisions between the Royalists and Parliamentarians in 1642 but

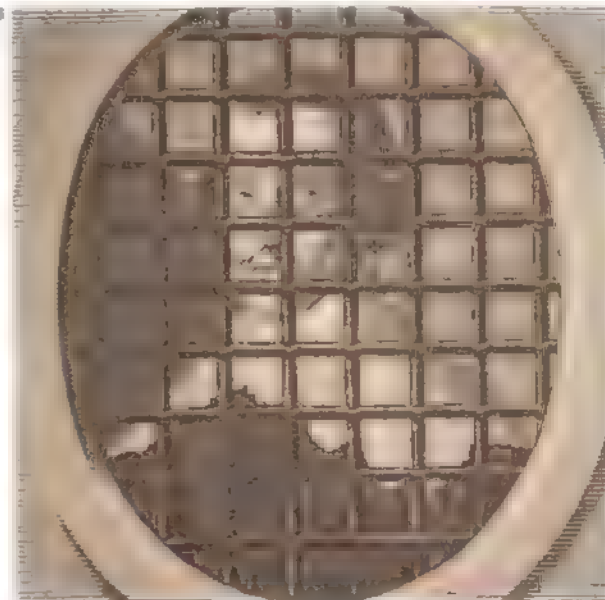
also social ones. The Royalists were seen as aristocrats and rakes, the Parliamentarians as low-born moralists. The Royalists drew support from some of the gentry and most of the peasantry, who often wore lavish costume and long hair, denoting them as men of

social standing and wealth. The Parliamentarians had considerable backing among landowners, but they derived additional support from urban merchants, tradesmen and artisans, who were often motivated by Puritan zeal and wore shorter hair and sober clothing.



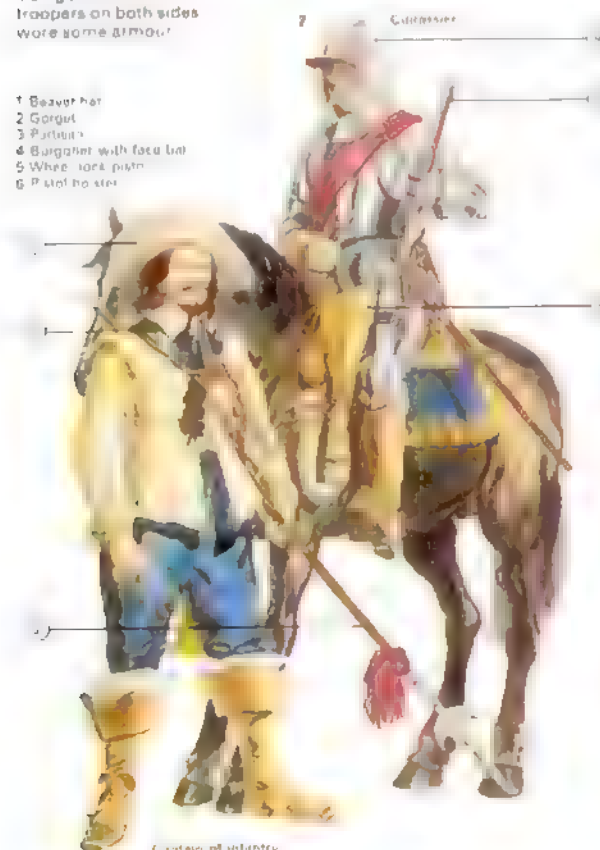
5 Edgehill (23 Oct 1642) was the first major battle of the civil war and the majority of officers and soldiers were in action for the first time. The two armies were fairly evenly matched and in military terms the outcome was indecisive. By the end of the war, the king's forces were only a little more than half those of Parliament. The king marched south to set up his capital in Oxford, as London eluded him.

6 A key development in the 1640s was the growth of the first organized, mainly lower class political party in English history. This group known as the Levellers, played a important political role in the years 1647–9 before eventually being defeated by Cromwell. The Levellers did not have one party leader but a dominant part was played by "Freeborn John" – the spirited propagandist, John Lilburne (1614–52), shown here. The Levellers called for a considerable extension of the franchise and were suppressed by both king and Parliament.



7 Officers wore civilian garb whereas troopers on both sides wore some armour.

- 1 Beaver hat
- 2 Gorget
- 3 Purfling
- 4 Burgonet with face bar
- 5 Wheel lock pistol
- 6 Pistol holster



Captain of infantry

8 Oliver Cromwell was a military genius and a pragmatic politician. He ruled as Protector and tried to reconcile discordant factions staunchly upholding the principle of religious tolerance.

9 The restored monarchy in 1660 was much weaker and power was shared with Parliament. The Cavalier Parliament was opened and much state pagantry on 22 April 1661 with Charles

II riding in procession from the Tower of London. The landowning gentry had learned to fear a powerful monarchy and standing armies and they soon became critical of Charles and his ministers.



The Commonwealth and Protectorate

The execution of Charles I on 30 January 1649 [1] inaugurated an era of constitutional experiment for England. Without a monarchy or a House of Lords, a republican government was established by the House of Commons – now reduced to a “Rump” composed chiefly of the most radical “Independent” members who had survived “Pride’s Purge”, the exclusion of members opposed to the king’s execution. The Scottish Presbyterians, who refused to recognize the Commonwealth, were defeated at Dunbar in 1650, and the young Charles Stuart at Worcester in 1651. Oliver Cromwell [Key] also subdued Ireland in a brutally efficient campaign (1649–52). The Rump passed the Navigation Act (1651) providing for sea trade to be carried in British ships, and enforced it by a successful war at sea against the Dutch (1652–4) [3].

The Cromwellian Protectorate
Despite these military successes, Cromwell became impatient at the Rump’s slowness to promote domestic reforms, and forcibly dismissed Parliament in April 1653 [4]. There

followed a brief and ineffectual experiment (June–December 1653) with the Nominated, or “Barebones”, Parliament, which was made up of religious zealots and was intended to lead the country towards truth.

Cromwell thus became the foremost political as well as military leader of the English Revolution. In December 1653, he was appointed Lord Protector, an office he held until his death. Having come to power by unorthodox means, Cromwell was faced with many difficulties, but he was powerful and successful, although not popular.

In the 1650s the “army of the saints”, although politically radical, developed into a highly disciplined force, whose support Cromwell was always careful to retain. The survival of his regime was thus ultimately dependent upon the existence of a loyal standing army of 60,000 men. Cromwell was not, however, simply a ruthless seeker after power for its own sake. He was undoubtedly ambitious, but he was also motivated by a deep commitment to the principle of religious toleration. His domestic policies were not as revolutionary as his career in the

1640s had suggested; he opposed monarchical absolutism and believed in parliamentary rule. He was a pragmatist concerned with ensuring the survival of his experiment, and (as he himself said) not “wedded and glued to forms of government”.

Foreign and domestic policies

One solution to a legacy of domestic problems after a period of revolutionary turmoil is to turn attention outwards with an aggressive foreign policy. Cromwell, like Napoleon, did this. He made peace with the Protestant Dutch in 1654 but then waged war against the Catholic power of imperial Spain (1655–8). This policy pleased some English commercial interests; but primarily it allowed Cromwell to invoke glorified memories of earlier wars against Spain under Elizabeth I. Cromwell achieved legal, administrative and educational reforms despite continuing financial problems posed by the war and standing army [7]. No dramatic social changes were attempted. In religious matters, Cromwell extended freedom of worship to all Puritan groups,

CONNECTIONS

See also

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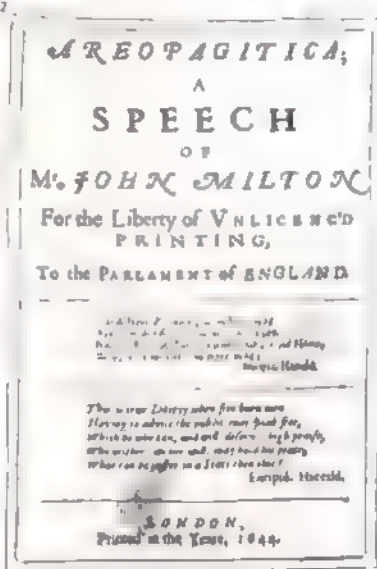
1759

1760



1 The execution of Charles I in 1649 after a trial as a tyrant and traitor shocked many people at home and abroad. But it established the principle that a ruler was accountable to Parliament.

2 *Areopagitica* (1644) by the poet John Milton (1608–74) was a passionate plea for freedom of speech and liberty of conscience. Milton later acted as an apologist for the Commonwealth and Protectorate.



3 The first Anglo-Dutch War (1652–4) between the two main Protestant republics sprang from longstanding commercial and colonial rivalries that had been exacerbated by the mercantilist-inspired Navigation Act of 1651 which permitted only English ships to serve English or colonial ports. The war resulted in disruption of the Dutch carrying trade and consequent English gains. The English navy under Robert Blake (1599–1657) defeated the Dutch at Portland (1652) and Texel (1653). Those successes marked England's emergence as a major maritime power and henceforth English foreign policy was marked by much greater concern for the significance of commercial and colonial interests.

4 The dismissal of the Rump Parliament in 1653 arose from Cromwell's impatience for domestic reform. But the act left him politically isolated: a satisfactory constitutional settlement with other Parliaments eluded him.



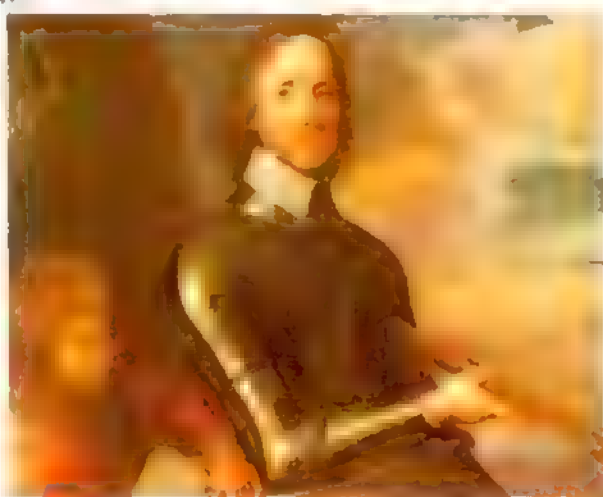
including the most radical ones. Members of the now-eclipsed Church of England [5] had to worship secretly, but actual persecution was directed only against Catholics, whose creed was thought to be too intolerant to be allowed to continue unchecked

The return of conservatism

Although in the 1650s Cromwell had many critics, pressure for abolition of social distinctions and redistribution of wealth, which had appeared in the later 1640s among lower-classes and in the army, the Levellers and Diggers, had largely disappeared – partly as a result of a run of good harvests (1653–6) that reduced food prices and allayed economic discontents. Gentry landowners, finding their authority largely intact, were quiescent. An attempted Royalist uprising in March 1655, led by John Penruddock, attracted little support, but the government panicked and introduced the rule of the major-generals in June 1655. An experiment in direct military control in local affairs, this brought Cromwell's popularity with the gentry to its lowest point.

Cromwell, however, sought constantly to achieve a constitutional agreement with landowner representatives in Parliament [6] that would give his rule a solid basis. He called two parliaments (1654–5, 1656–8) and wrangled with both. But eventually he realized the extent of parliamentary opposition to the major-generals, and dismissed John Lambert, the army "strong man", in July 1658, after accepting a new constitutional settlement, the Humble Petition and Advice, in May 1657. It strengthened Parliament, restored the Upper House, which had been abolished in 1649, and sought to consolidate Cromwell's authority by making him king – an offer he refused under pressure from the army.

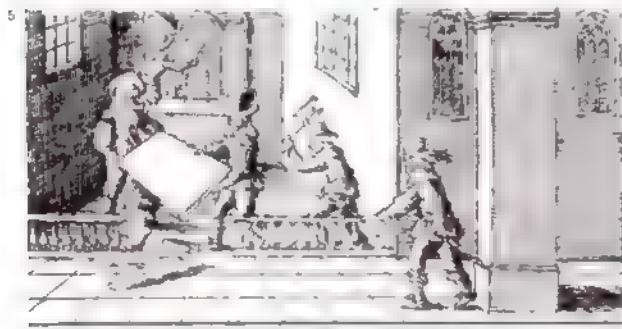
When death toppled Cromwell from power, his regime, in the hands of his son Richard, "Tumbledown Dick" (1626–1712) and the now-divided army leaders, did not long survive him. Stuart monarchy was eventually restored in May 1660 [9] and the Church of England was revived. This ended an important era of upheaval and experiment in English history.



Oliver Cromwell (1599–1658) came from a minor landed family and entered Parliament in 1628. His military skill

as a commander in the civil wars of the 1640s made him a natural leader of the parliamentary side. Determined to

achieve constitutional reform, he supplied the strength of purpose needed to unify the nation without a king.

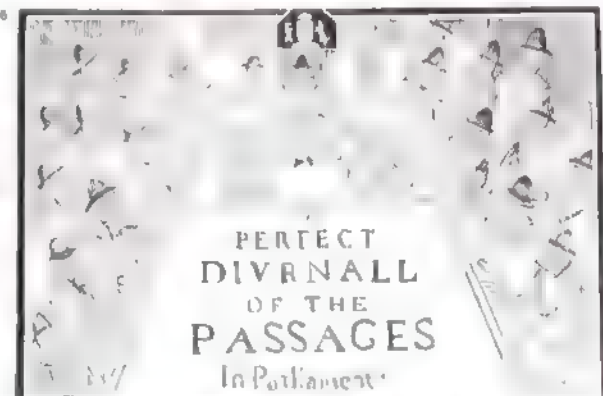


5 Puritans destroyed religious images

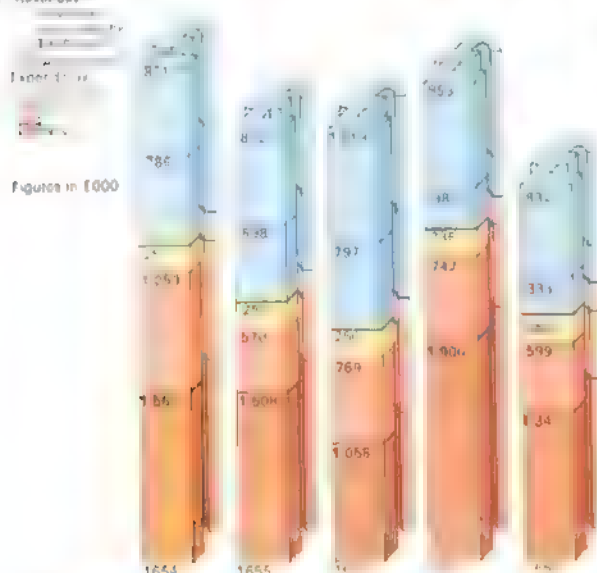
In many churches and tried to curb

Sunday recreations for all the people

6 Public reporting of Parliament was stimulated by some expansion of press freedom in the period 1640–60. Cromwell's search for a political consensus on which to base the Commonwealth, and his difficulties with his two parliaments, were widely reported. The members of Cromwell's parliaments were drawn from the ranks of the respectable landed gentry society, but political discussion was common among all classes.



7 Revenues

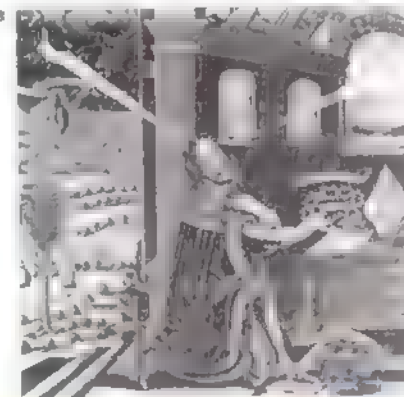


8 Events leading to the Restoration in May 1660 were complex. Richard Cromwell succeeded his father peacefully but faced difficulties from Parliament in 1659 and from the army, and resigned in May 1659. Power reverted to the divided army

leadership which argued with the Rump, recalled for lack of any other source of authority, in the summer of 1659. An attempted Royalist rising in September 1659 received little support for fear of renewed civil war. Eventually General

Monck (1608–70), army commander in Scotland, marched on London and summoned the Convention Parliament, which recalled Charles. The king's return was greeted with popular enthusiasm, but this followed rather than caused his restoration.

7 Cromwell's finances like those of the Stuarts, suffered from the chronic problem of rapidly increasing costs. This was aggravated by the need to support and find use for the army and navy. But Cromwell never had to face bankruptcy. This diagram shows the high proportion of expenditure on the armed services during the Protectorate. It excludes Scottish and Irish revenues which helped to redress the deficit balance.



8 The Eikon Basilike first published in 1649, created the legend of Charles the Martyr. Written probably by John Gauden (1605–62) but supposed to be by Charles himself, it emphasized his dignity in adversity. Charles's posthumous reputation greatly assisted the cause of monarchy during the Commonwealth, but it is unlikely that he would have approved of the form of monarchy that his son accepted.



The Restoration of the Stuarts

The powers and position of the English monarchy, restored in 1660, were defined by the Convention Parliament (1660) and in the early sessions of the Cavalier Parliament (1661–79). Both these assemblies, like Charles II (1630–85) himself, wished to avoid the extremes of recent years. Parliament insisted on maintaining the limitations imposed on the Crown by the “constitutional revolution” of 1640–41. The king was not granted too large a revenue, so that he would be forced to call Parliament frequently to ask for more. Thus Charles had to summon Parliament almost every year until the very end of his reign. The gentry who sat in Charles II’s parliaments were quite prepared to uphold the royal authority, provided the king used it in ways they approved.

The religious settlement

Charles’s success as king therefore depended on his ability to keep the trust and goodwill of the House of Commons, above all by respecting the religious prejudices of the country. In the 1640s the old Church of England had been dismantled. In the resulting

vacuum of religious authority new movements such as the Baptists and Quakers had grown and multiplied. The House of Commons of 1661, however, re-established the Church of England with severe laws against Protestant Nonconformists. Charles was not happy with this extremism. Apart from his personal Catholic tendencies, he was tolerant by nature. In 1660, before returning to England, he issued a declaration at Breda promising liberty to tender consciences, subject to the approval of Parliament. Parliament would not let him keep his promise, but Charles tried in 1662 and 1672 to procure greater liberty for Nonconformists.

More explosive was the problem of Catholicism, which became linked in the 1670s with questions of foreign policy. In 1670 Charles allied himself with Louis XIV (reigned 1643–1715) of France [Key]. In 1672 together they attacked the Protestant Dutch Republic, which was almost overrun by Louis’s army. Louis was already feared as the archetype of absolutism and militant Catholicism, and Charles’s alliance with him seemed doubly sinister when it became clear

in the 1670s that Charles’s brother James, Duke of York (1633–1701) [7], later James II, had become a Catholic. As Charles had no legitimate children, James was the heir apparent, and the prospect of the first Catholic monarch in England since Mary (reigned 1553–8) overshadowed the politics of the last half of Charles’s reign.

Opposition to Catholicism

English Protestants had long identified Catholic rulers with both absolutism and cruel persecution [4]. In 1678 Titus Oates (1649–1705) [5], a disreputable adventurer, came forward with allegations of a “Popish Plot” to assassinate Charles and make James king. Three times between 1679 and 1681 the Commons passed bills to exclude the Duke of York from the succession, but neither the king nor the Lords would agree to them. Led by Anthony Ashley Cooper, Earl of Shaftesbury (1621–83) [6] the “Exclusionists” (who formed the nucleus of the embryonic Whig Party) mounted a strident campaign of petitions, propaganda and demonstrations. Echoes of the Civil War

CONNECTIONS

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1 The Treaty of Breda (1667) ended the 2nd Anglo-Dutch War. England thus renounced claims to the Dutch East Indies, but in return gained control of New York and New Jersey. Earlier, in 1660 Charles issued a declaration at Breda in The Netherlands promising a general pardon for activities during the revolution, as well as religious toleration should he be invited back to the throne. He thus removed any obstacles to his restoration.



2 Charles II, unlike his father and brother, was a charming and popular man, although reluctant to devote himself to the details of government. Temperamentally suited to absolute government, he was determined not to be exiled again, and his cynical view of human nature made him try to control his ministers by playing one off against another. Much of the politics of his reign was therefore confused. This bust was made by Honore Polle.

3 The Royal Society was incorporated by Charles II in 1662. At that time interest in science was fashionable. The Society’s early proceedings ranged from demography to botany, reflecting the

polymathic interests of the members. The early Fellows included courtiers and dilettantes as well as men of outstanding talent such as Wren, Boyle and Newton. Above all perhaps the Society spread an

understanding of “natural philosophy” to the ruling elite of England and thus contributed to the acceptance of the social thought of the Enlightenment and indirectly inspired the Industrial Revolution.



4 Fear of Catholicism during the Restoration was based on the Protestant feeling that not only was it erroneous and idolatrous theologically, but that it was a malign political force as well. It was thought that Catholic rulers, however gentle by nature

would be forced by the pope to persecute Protestants. The aggressive rule of Louis XIV in France seemed to show a clear link between Catholicism and absolutism, attacking Protestants both in his own kingdom and in the Dutch Republic. In particular the

Revocation of the Edict of Nantes by Louis XIV in 1685 ended all toleration of Protestants in France. Many went into exile in England and their reports of Catholic intolerance added weight to the Protestants’ fears of James II. Thus when

James imprisoned for sedition seven bishops who refused to read his Declaration of Indulgence in May 1688 that promised toleration to the Catholics as well as Dissenters his attack on the Anglican Church, was seen as an attack on the rule of law.



agitations worried the more conservative opponents of Exclusion (who became known as Tories). They rallied to the king and helped Charles survive the exclusion crisis, permitting the peaceful accession of James II in 1685.

At first all went smoothly. James easily crushed a rebellion by James, Duke of Monmouth (1649–85) [8], an illegitimate son of Charles II and James's Protestant rival for the throne in the Exclusion crisis. But the Tories' co-operation with James soon ended. James hoped to give the Catholics religious liberty and political equality by repealing all the laws that prohibited Catholic worship and excluded Catholics from public office. The Tory Parliament of 1685 was strongly royalist but also strongly anti-Catholic. Annoyed by the Tories' hostility, James tried to persuade the Protestant dissenters to support a general toleration that would include Catholics. In 1686, despite opposition from Archbishop Sancroft (1617–93), he set up an ecclesiastical commission that was seen as an attempt to subject the Church to his religious policies. Meanwhile he stretched his powers

as Charles I had done in order to admit Catholics to places in the army, the administration and the universities.

The "Glorious Revolution"

James's nephew, William III of Orange (1650–1702), was closely interested in developments in England. Already the dominant political figure in the Dutch Republic, William had a claim to the English throne through his wife Mary, James's elder daughter, and he was eager to use England's fleet and wealth in his lifelong struggle against France. By 1688 William feared that he might be cheated of the succession because late in 1687 it was announced that James's queen was pregnant. By the time James's son was born, in June 1688, William had decided to invade England in response to an invitation from leading political figures. He landed with his army on 5 November [9]. James fled to France and in February 1689 Parliament offered the crown jointly to William and Mary and the rule of law, enshrining the supremacy of the landed interest over the monarch, was assured.



Charles II usually followed Louis XIV not vice versa as in this cartoon. Except for the period 1678–81, Charles was allied with Louis (whose power he envied) or

was benevolently neutral. Louis gave him several subsidies to help him to stay independent at home, and to assist Parliament's demands for a war against Louis, whom

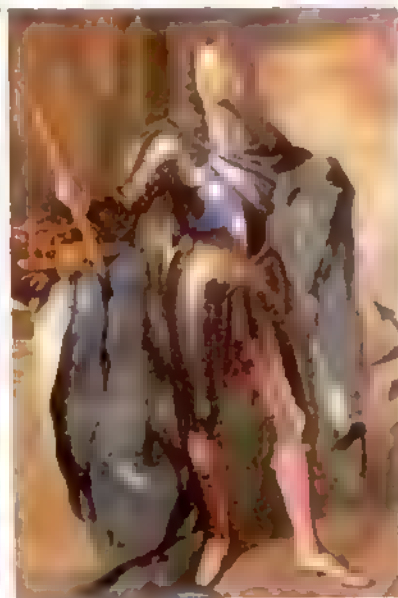
most Englishmen saw as the main enemy. Initially Charles sought the French alliance to avenge England's failure to win the 2nd Anglo-Dutch War of 1666–7.

5 Titus Oates, the main witness in the Popish Plot, had spent a year as a Jesuit novice and the stories that he told were based on the information he collected at various seminaries. Despite inconsistencies he spoke so compellingly that many believed him. The murder of the magistrates to whom Oates first recounted the plot appeared to confirm all that he said. In 1685, however, he was convicted of perjury and flogged. The crisis allowed Shaftesbury, a former supporter of Charles who now feared his conversion to Roman Catholicism, to drum up anti-Catholic agitation and turn it against James, the Catholic heir to the throne. He died in voluntary exile in Holland.

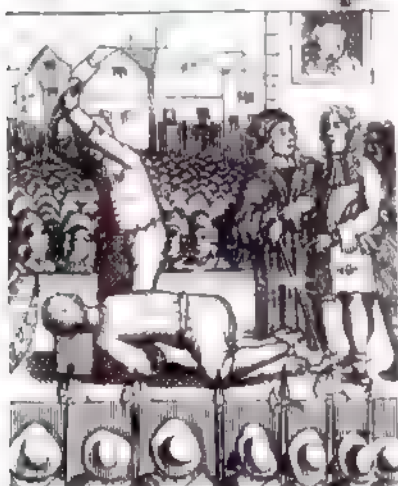


6 The Earl of Shaftesbury had been a royal minister in the 1660s and early 1670s. His organization of the Exclusionists into a coherent parliamentary group was important for the development of political parties.

7 James II served as an able commander of the fleet during the 2nd Anglo-Dutch War but as a Catholic he lacked Charles's popularity, and quickly alienated all the support that he had at his accession.



VII



The late D of M beheaded on Tower Hill 15 July 1685

8 The Duke of Monmouth landed in Dorset in 1685 to assert his claim to the throne. He won little gentry support and was easily beaten at Sedgemoor. His followers were treated with severity by Judge Jeffreys (c. 1648–89) in the so-called Bloody Assizes at which 200 were hanged and 800 transported. Monmouth himself was executed.

9 William of Orange landed at Brixham late in 1688 with an army of 15,000 men. But his invasion succeeded without bloodshed (hence its name the "Glorious Revolution"), as James's army commander John Churchill (1650–1722), later Duke of Marlborough, went over to William's side at the last moment removing James's last source of support in the country.



Pepys's London

The London of Samuel Pepys (1633–1703) [Key] was small (Marylebone and Mile End were in the country) and consisted of two cities. London, the commercial and financial centre, and Westminster, centre of government, politics and aristocratic society. The two were so different, culturally and politically, that there was often tension between them. Pepys, however, straddled both worlds. A Londoner by birth and a civil servant by profession, he moved easily between his office and lodgings near the Tower and the court at Whitehall. A man of quick intelligence, who paid careful attention to detail, he rose from a comparatively menial post to become James II's chief naval administrator.

Diary of a somebody

There was nothing very unusual about Pepys's rise to wealth and prominence. The Tudor and Stuart civil service offered a career open to talents. What was unusual about Pepys was his diary, which gives an unequalled panorama of life in London between 1660 and 1669: the politics of court and Parliament, meetings with naval contrac-

tors and mistresses, music and the theatre, food and drink, and tensions at the office and quarrels with the neighbours.

Insatiably curious and endlessly sociable, Pepys wanted to know everything that was going on and jotted it down, in shorthand when he got home. On 25 March 1661 he told how, returning home, he "took up a boy that had a lanthorn, that was picking up rags and got him to light me home, and had great discourse with him, how he could get some times three or four bushells of rags in a day and got 3d a bushell for them, and many other discourses, what and how many ways there are for poor children to get their livings honestly." Gossip about Charles II's sexual cavortings is juxtaposed with details of admiralty business or the latest experiment performed before the Royal Society. National humiliations such as the Medway disaster [6] appear alongside details of a meal.

Congestion, crime and natural disasters

At the Restoration, London [1] was the largest city in England. Its population – not far short of 500,000 – was more than ten

times that of Bristol, its nearest rival. Little more than a century earlier, its population had been only 50,000 and it now displayed all the symptoms of unplanned urban growth. Within the old medieval walls rising population and property values encouraged land lords to build upwards and to overcrowd their property [3] despite municipal attempts to control them.

The fastest growth was to the east and north – Stepney, Whitechapel, Shoreditch, Clerkenwell – and south of the river in Southwark. There the speculative builder and ~~some~~ landlord operated almost unchecked. Jerrybuilt tenements and insanitary courts housed artisans and porters, watermen and sailors, Huguenots and Irish.

As the population had far outgrown the flimsy machinery of law and order, crime flourished. Violence was never far below the surface in Restoration London. Drunken quarrels ended in murder. Courtiers and soldiers showed a casual disregard for human life. On public holidays law students from the Inns of Court and gangs of apprentices roamed the streets looking for trouble.

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1 London before the Great Fire was a chaotic jumble of houses. Old St Paul's dominated the skyline and London Bridge lined with homes and shops, was the only bridge across the Thames. The city's streets filthy with rubbish were dangerous at night because of criminals. The River Thames served as the main highway. It was quicker and cleaner than the narrow and congested cobbled streets.



2 Charles II and his mistress Nell Gwynn converse in the presence of diarist John Evelyn (1620–1706). Such a scene wrote Evelyn, made him "heartily sorry." He was shocked by the king's promiscuity.



3 Houses huddled against each other in London. Most dwellings were built of wood, (despite regulations against its use) and they had narrow frontages, steep roofs and projecting upper floors.



4 The plague of 1665–6 was carried by the rats that infested London's teeming tenements and deaths exceeded 15 per cent of the population. By far the worst year was 1665. Carts trundled through the streets at night to collect corpses for communal burial. The court moved out of London as did many people. Houses touched by pestilence were vacated and the door marked with a red cross and with the words "Lord have mercy upon us."

Such a crowded, ill-housed population was vulnerable to the ravages of disease and fire, both of which struck terribly in the 1660s. The last great outbreak of bubonic plague (1665-6) [4] claimed more than 70,000 victims in London. Pepys wrote on 30 July 1665: 'It was such noise to hear our bell to toll and ring so often to day, either for deaths or burials, I think five or six times'. The Great Fire of 1666 [5] destroyed most of the City of London. On 2 September Pepys watched the progress of the fire – a most horrid malicious bloody flame.

Rebuilding and expansion

Out of this catastrophe came a chance to rebuild according to a single coherent plan [7], a great swathe of central London from the river up to London Wall and from Fenchurch Street to Fleet Street. From the ashes emerged a new city with broader, cleaner streets, brick-built houses, a much purer water supply and a whole series of churches [8] designed by the brilliant young architect Christopher Wren (1632-1723).

London had long been the greatest port in

the kingdom, and under Charles II new trading companies were established, notably the Royal African and Hudson's Bay companies. But the main source of the impressive commercial growth of the 1670s and 1680s lay elsewhere. First, by protective legislation and naval power England began to challenge the Dutch dominance of the international carrying trade. This would at length enable London to replace Amsterdam as 'the world's entrepôt'. Second, these years saw a massive increase in imports and re-exports of sugar and tobacco from England's Caribbean and North American colonies. In addition, London was the hub of the growing internal trade within England.

Farther west, between the City of London and the City of Westminster, lay an area that had largely escaped the fire. Here were the palaces of the nobility, situated within convenient distance of Parliament and the royal palaces of Whitehall and St James's. The Strand had been developed much earlier and the main growth areas in Pepys's day were in Pall Mall, Piccadilly and St Giles's Fields – around the West End of the future



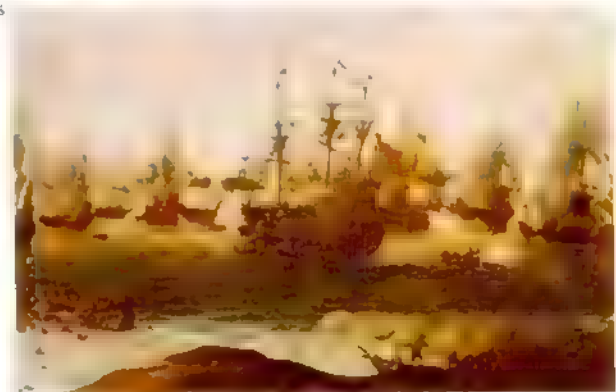
Samuel Pepys held an important post in the Navy Office, and was

an MP and president of the Royal Society. His diary shows him

to have been cultivated, fastidious, ambitious and lecherous.



5 The Great Fire (1666) began in a baker's house in Pudding Lane and raged for three days. It destroyed 13,000 houses, St Paul's, 87 parish churches and many public buildings. Deaths were few but half the population was rendered homeless.



6 A Dutch fleet sailed up the Medway in June 1667, found defences almost non-existent and burned, sank or captured several of the king's greatest ships. The flagship *Royal Charles* was among those captured. Meanwhile, wrote Pepys bitterly, the king was chasing a moth with his mistress. The Dutch Wars flared intermittently from 1652 to 1674.



7 Several plans for rebuilding London were advanced after the Great Fire. Christopher Wren proposed that broad, straight streets should be laid down in a geometric pattern. A new St Paul's and Royal Exchange were

the main focal points of his scheme, which featured several piazzas. But a shortage of money and conflicting interests meant that no scheme was adopted in full. Instead the shape of the city was decided by a special committee.

8 St Lawrence, Jewry, was one of the 53 churches that Christopher Wren built in London following the Great Fire. He was appointed Surveyor General in 1669 with the task of rebuilding the city. These churches have distinctive spires but Wren

lavished most attention on their interiors, which he made an interplay of rhythms and light spaces. No authority was able to buy enough land to organize the rebuilding in a centralized manner, but stringent regulations limited private builders.



Art and architecture in the 17th century

Art in 17th century England falls into two sharply defined phases, separated by the unsettled years of the Civil Wars and Commonwealth from 1642 to 1660. In the earlier period, in particular, the vitality of the visual arts depended on the enthusiasm and cosmopolitan taste of successive monarchs James I and Charles I, their families and courtiers. Whereas in the later sixteenth century only inferior European artists and craftsmen had been attracted to England, the Stuarts managed to employ painters of high calibre such as Rubens and Van Dyck, commissioned the great Italian sculptor Bernini and attracted to court good foreign sculptors. In the architect and designer Inigo Jones they had an Englishman who fully understood the lessons of the Renaissance.

The court of Charles I

The development of court taste was fostered by collecting. In the years around 1620 two leading political figures, the Earl of Arundel and the Duke of Buckingham (the favourite of Charles I), were collecting antique sculpture and European paintings, especially the

work of the great Venetians, Titian and Veronese. English ambassadors and agents scoured Europe and Asia Minor on their behalf. Charles I's elder brother, Prince Henry, showed himself a discriminating patron and collector by 1610–12, and Charles himself built up an astonishingly rich collection during his reign. The Commonwealth sales of the 1650s dispersed most of this collection.

The major artistic figure at the early Stuart court was Inigo Jones (c. 1573–1652). He acted as connoisseur, as designer of scenery and costumes for court masques, and above all as an architect whose influence reached out to town planning and garden design. Appointed Surveyor of the Royal Works (architect to the king) in 1615, he executed during the following 25 years a series of buildings that formed the basis of classical architecture in Britain for two centuries. In the Whitehall Banqueting House (1619–22) [1] he used classical columns and cornices to give scale and correct proportions to a façade; the Queen's House, Greenwich (begun in 1616) was a version of a Palladian

villa, with the richly fanciful interiors of the 1630s which are now largely destroyed. His chapel at St James's Palace (Marlborough House Chapel, 1623–5), and his church of St Paul's, Covent Garden (begun in 1631), both used the temples of the ancient Romans as models for modern ecclesiastical architecture. Covent Garden piazza, a formal square enclosed by terraces of houses set on open arcades, was the forerunner of the unified squares of Georgian London.

Sculpture and painting under the Stuarts

The influence of antiquity was also felt in sculpture, particularly in the later work of Nicholas Stone [2]. Hubert le Sueur (c. 1595–c. 1650) designed exceedingly elaborate monuments such as those of Henry VII's chapel in Westminster Abbey, and depended rather on recent French prototypes. Bernini executed a bust of Charles I, using a triple portrait by Van Dyck as a guide; his influence can be seen in post-Restoration sculpture, particularly the monuments of John Bushnell (died 1701). In general, figures on monuments became less stylized and were made to

CONNECTIONS



1 In the Banqueting House, Whitehall, Inigo Jones first brought to England a fully understood Renaissance classicism. It has a single enormous room in which great ceiling paintings by Rubens were installed in 1635.

2 John Donne (1572–1631) requested that his monument should show him in his shroud rising to heaven at the Last Trump. He posed for the sculptor Nicholas Stone (c. 1587–1647). The monument shows in the

soft drapery the study that Stone had made of antique sculptures brought to England by Arundel and Buckingham. Funerary monuments erected by Stone survive in many churches throughout Britain.



3 Anthony Van Dyck was a pupil of Rubens but developed a distinctive touch and elegant presentation flattering to his courtier patrons. This portrait of the 4th Duke of Lennox (1634) has a pose reminiscent of Titian.



4 Cornelius Johnson was much influenced by Van Dyck but his figures are stiffer and less natural. Yet his ambitious family portrait of "Arthur Capel with his wife and children" of about 1639, is touchingly intimate. Capel was made Earl of Essex

by Charles I, and was executed by the Parliamentarians in 1649 after serving as an ardent Royalist in the Civil War. In the background of the picture there is a remarkable formal garden, with classical statues and balustraded walks.

Capel laid out this garden at his house Hadham Hall, Hertfordshire. The classicism of Jones widely influenced country house and garden design even before the Civil War, although Jones himself probably designed few such country houses.



5 Ramsbury Manor, Wiltshire (dated 1683), is a perfect country house of the Restoration. The simple regular design depends on good proportions for its effect. The architect was Robert Hooke (1635–1703), secretary of the Royal Society.

express emotion frankly. But Grinling Gibbons (1648–1721), the most famous sculptor of the century, specialized in virtuoso decorative wood-carving of fruit and flowers in the Dutch manner [8].

For painting, the presence of the Dutchman Anthony Van Dyck (1599–1641) in England from 1632 until his death was crucial. He transformed portraiture from the style of Holbein by his easy fluid technique, and by his sense of colour and form learnt from the Venetians as well as from his master, Rubens. He was the ideal court painter, and was kept fully occupied executing portraits [3].

Van Dyck's style influenced the work of his contemporaries, such as Cornelius Johnson (1593–1661) [4], as well as his successors, such as William Dobson (1610–46). The miniaturist Samuel Cooper (1609–72) [7], who worked from the late 1630s, surpassed Van Dyck in depth of character and created an astonishingly wide variety of poses for the tiny scale of his works. Restoration court portraiture was dominated first by Peter Lely [6] and then by Godfrey

Kneller (c. 1646–1723), both of whom were German by birth. The leading decorative painter of this period was the Italian, Antonio Verrio (c. 1639–1707) [8].

Wren and Restoration architecture

In architecture after the Restoration the classicism of Inigo Jones triumphed. One of Jones's successors as Surveyor of the Works (from 1669) was Christopher Wren (1632–1723), who brought to architecture the experimental spirit of the recently founded Royal Society. He rebuilt more than 50 London churches after the Great Fire of 1666, and fulfilled royal commissions for three palaces [8] and two magnificent hospitals, at Chelsea and Greenwich. Wren was therefore given vast scope to express his talents. His masterpiece was St Paul's Cathedral (1675–1710) [Key], which grew more ambitious as the building progressed. Wren's successors, Nicholas Hawksmoor (1661–1736) and John Vanbrugh (1664–1726), emphasized Baroque massiveness in their buildings, notably Blenheim Palace (1705–c. 1725) [9].

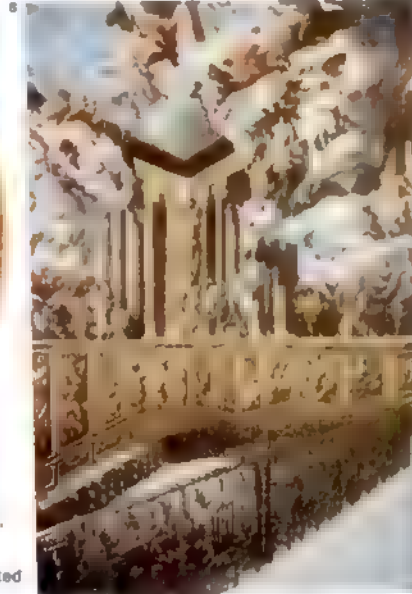
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St Paul's Cathedral, London, was built by Christopher Wren. Its great dome is 111.2m (365ft) high and the building displays a restrained English version of the ornate Baroque style.



6 Peter Lely (1618–80) painted the "1st Earl of Sunderland" in 1643. He later became the main portrait artist of the Restoration.

7 Samuel Cooper revived the miniature, as in this portrait of the "Duke of Monmouth". He also painted Cromwell in old age.



8 Hampton Court Palace was partly rebuilt by Wren for William and Mary. Successive Stuart monarchs tried to make palaces as splendid as those of the kings of France and Spain. The formal gardens of Hampton Court, and the series of state rooms with illusionistic painting by Verrio and virtuoso wood carving by Grinling Gibbons, are the finest surviving monument to these royal ambitions. The King's Great Staircase (shown here), leading to the King's State Suite on the first floor, has an iron balustrade by the Frenchman Jean Tijou and Verrio's wall paintings represent the triumph of the Protestant William III over the Catholic kings of Europe.

9 Blenheim Palace, Oxfordshire, was built after 1705 as a gift from a grateful nation to the Duke of Marlborough to reward him for a decisive victory over Louis XIV of France. It has a Baroque magnificence that English royal palaces never were able to achieve. The architect, John Vanbrugh, with the assistance of Nicholas Hawksmoor, carried the flexible and inventive style of Wren to new heights of grandeur and monumentality. The locally quarried stone used in the building is highly appropriate for such architecture, which aimed to survive for eternity. The grounds were laid out so that each clump of trees represented the position of one battalion at the battle of Blenheim.



Scotland from 1560 to the Act of Union

The religious upheavals in Scotland during the first half of the sixteenth century, initiated by the Reformation, found wide support for political as well as spiritual reasons. The new religious ideas were welcomed by those wishing to loosen the alliance with Catholic France in favour of England, and the nobles, who hoped to gain much from a weakening of the Church's power.

The Reformation and the Crown

With the abolition of papal authority in 1560, Calvinism quickly became the official belief in Scotland, but the ruler, Mary, Queen of Scots (reigned 1542–67), was a Catholic and a member of the French royal family [1]. On the death of her husband Francis II of France (reigned 1559–60), Mary returned to Scotland to try to establish her authority as queen.

She proved to be a clever politician but her power and public appeal were always limited by the tremendous influence of John Knox (1505–72), the leading preacher of the new church [3]. Eventually, in 1567, she was forced to abdicate by the nobility, who were angered at her turbulent marriages [2]. In

1568 she had to take refuge in England, and the nobles put her infant son James VI (reigned 1567–1625) on the Scottish throne with the expectation that a king so created would be their puppet.

On this point the nobles failed. James grew up to become the most effective ruler of any of the Stewarts. He did this without funds or force, but purely by negotiation and hard work, particularly helped by the fact that he was expected to inherit the English throne. He and his cousin, Elizabeth I of England (reigned 1558–1603), both wanted peace on the Border. In 1603, Elizabeth on her deathbed acknowledged James as her heir. James, known thereafter as James I, moved to England but continued to control Scotland as he said "by my pen" [Key].

James's son Charles I (reigned 1625–49) could not do this because he did not have the intimate knowledge of the country. His policy of personal rule made the Scottish nobility uneasy for their rights and powers while his religious policy was seen, rightly or wrongly, as contrary to Presbyterian principles. When Charles produced a prayer book

for Scotland in 1637 [4] it provoked the Scots to formulate a claim for their traditional liberties – the National Covenant. Charles's attempts to bring an English army to suppress the Covenanters led to the Long Parliament and thus contributed to the start of the English Civil War in 1642.

The English Parliament persuaded the Scots to join in the first Civil War (1642–6) by accepting the terms laid down by the Scots in the Solemn League and Covenant, of 1643. But after the war, power lay in the hands of the Parliamentarians' army, which wanted an independent church system with liberty for the individual congregation. Efforts by the Scots to insist on Presbyterianism led to the second Civil War (1648), the execution of Charles (1649) and occupation of Scotland by Oliver Cromwell (1599–1658) [6].

Stuart restoration and dethronement

When the English Parliament called Charles II (reigned 1660–85) back to the throne [7], it was taken for granted that he would rule in Scotland too. However, some of the extreme

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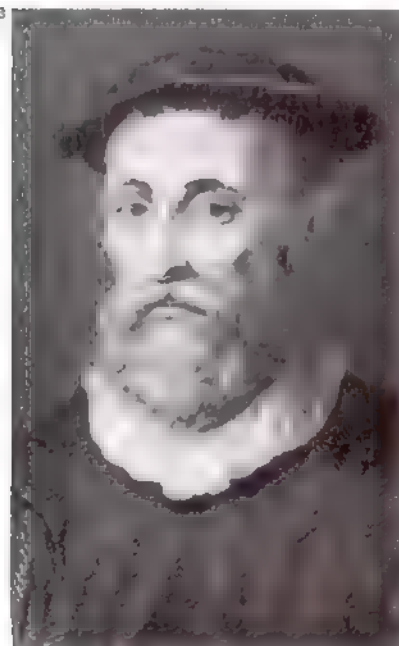
1 After the death of Henry II of France in 1559 (shown here) the French crown passed to Francis, the husband of Mary, Queen of Scots. This association of the Scottish queen with Catholic France weakened her popularity in

Scotland: she adhered to her foreign tastes even after she returned to her home country in 1580. Her marriage to Darnley, also a Catholic, in 1565 was an attempt to overawe the Protestant opposition of Knox and Murray.

2 Mary's execution (shown here) took place in England in 1587 on the reluctant orders of her cousin Elizabeth I. Mary had been driven out of Scotland in 1568 after the death of her cousin and husband Darnley, who had ordered the murder of Mary's Italian favourite David Rizzio, in 1566. Elizabeth imprisoned Mary, who was also the heir to the English throne, for many years to prevent her from endangering Elizabeth's foreign and religious policies.



*The Arch-Prelate of S^t Andrewes in Scotland
reading the new Service-booke in his pontificalia
assaulted by men & Women, with Crickets, Hooles
Sticks and Stones.*



3 John Knox compiled with other Calvinist ministers, *The First Booke of Discipline* (1560) which was the blue print for the creed and constitution of the Protestant Church in Scotland. It decreed a hierarchy of Church courts,

substantial stipends for ministers of the new Church, and proposed a generous programme of public education. This 'test' had only limited success because the nobility refused to surrender enough of the old Church's wealth to finance it.

4 The revised prayer book was introduced by Charles I in 1637 and caused widespread disturbances. Much of this was against its imposition on Scottish congregations, but many Scots also regarded the book as a source of dangerous innovations.

Popular unrest led to the Covenant of 1638 – a signed agreement to defend the reformed religion. The rebellion of the Covenanters culminated in the First Bishops' War in 1639 which was peacefully settled in the same year. However, the

Scottish assembly organized to resolve the conflict and the Scottish Parliament openly defied the king. Charles was refused funds for his army by the Short Parliament and his forces were defeated in the Second Bishops' War in 1640.

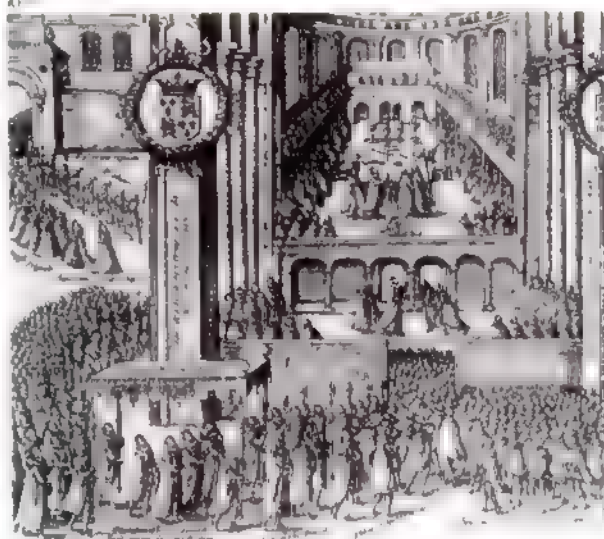
Presbyterian Whiggamore Party refused to accept any government not chosen by them; this and Charles's policy of re-establishing episcopacy led to disturbances. In this period the Scottish economy became dependent on trade with England. Scotland had to take part in English wars, even when the opponents were The Netherlands (1665-7, 1672-4); its main trading partner, and economic nationalism in France and Sweden further deprived Scotland of overseas markets.

The Revolution of 1688-9 against the Catholicizing policy of James II (VII) (reigned 1685-8) was, like the Restoration made in England and accepted in Scotland. But there was a larger and more effective resistance group this time, particularly in the Highlands, where many preferred James to the new King William III (reigned 1689-1702) because of William's reliance in Scotland on the unpopular house of Argyll. These Highland Jacobites, or supporters of the Stuart (as the Stewarts became known after 1603) line, defeated William's army in 1689 at the Battle of Killiecrankie in the southern Highlands, but were prevented by a

regiment of Covenanters defending Dunkeld from breaking through into the Lowlands. Later, the remaining Jacobite clans were brought to temporary submission by the Glencoe massacre in February 1692 [8].

Events leading to the Union

With the failure of William III and the next ruler, Anne (reigned 1702-14), to produce an heir, there was a possibility that the Scottish Parliament might bring back James, rather than accept the Hanoverian successor chosen by England. This reasoning seems to have persuaded the English to accept the idea of uniting the parliaments of the two countries. The increasing dependence on trade with England meant that economic sanctions could be used to compel the Scots to accept a union. There was a period of increased interest in the Jacobite cause, and hostility to England in the early 1700s, but in 1707 economic generosity by England and political generosity by Scotland brought about the union of the parliaments in Westminster [9], although leaving the laws and church systems of the countries distinct.



The English and Scottish Crowns were united in 1603

when James VI of Scotland was crowned James I of England. But James

was not able to effect a parliamentary union of the two kingdoms.



5 James Graham, Earl of Montrose (1612-50) was a leader of the Covenanters in the Bishops Wars, although later, in the Civil War, he campaigned brilliantly for the king in Scotland.



6 General Monck (1608-70) commanded the English army in Scotland under the Protectorate. He took his army to London and made possible the restoration of the monarchy in 1660 with Charles II as king.



7 Charles II was crowned by the Marquess of Argyll (1606-61) (centre right) in 1651, after compromising with the extreme Presbyterian Party. This ended in defeat by Cromwell in 1651.



8 The Massacre of Glencoe in 1692 took place after the Jacobite rising at Killiecrankie three years earlier. William III demanded an oath of allegiance from the Highland clans, and the MacDonalds of Glencoe did not take it. As an example to other clans, 38 of the clan were slaughtered by government troops.

9 The Act of Union in 1707 was made by commissioners from both countries and then passed into law by the separate parliaments. This process was relatively easy in England, but the Scottish Parliament needed a great deal of persuading by the Duke of Queensberry (1662-1711), shown attending Queen Anne's signing of the treaty.

Europe 1500–1700

In the first half of the sixteenth century the economy of Europe was dominated by a steady price rise, in the second, by unprecedented inflation. Price increases were felt first in Spain and resulted from the greatly increased imports of gold and silver from new mines in Mexico and Peru. The effects of this massive importation of bullion [5] were later offset by its export to other parts of Europe to liquidate Spain's unfavourable trade balances, to supply the needs of her armies in The Netherlands and by way of smuggling across the French frontier. Until these movements of bullion took effect general prices in the rest of Europe had risen more slowly than in the Iberian Peninsula.

Stimulus to international trade

This different rate of inflation in the European countries imparted a further stimulus to the expansion of international trade which had followed the discovery of the New World. The Baltic trade in corn with southern Europe, soon to be controlled and financed by the Dutch, was also promoted by the tendency of food prices to exceed those of

manufactured goods. This was because an impressive growth in population in Europe [1, 2] – from 50–60 million in 1450 to nearly 100 million in 1600 – increased the demand for foodstuffs when supply was restricted by poor yields in corn-producing areas of eastern Europe.

Although industry still catered mainly for the provision of luxuries to the wealthy, commercial expansion led to a greater use of credit facilities and an extension in public banking, especially in Italy where Genoese financiers arranged the transfer of Spanish remittances to The Netherlands.

The Dutch "economic miracle"

In the seventeenth century many of these trends were reversed. Inflation was checked in the second decade by decreasing imports of bullion from the New World. International trade, buttressed by the defence requirements of the Thirty Years War (1618–48), later experienced a downturn and stagnated. Competition between the powers for a preponderant share of world trade led to the adoption by most governments, except the

Dutch, of mercantilism, a system of protectionist trade policies.

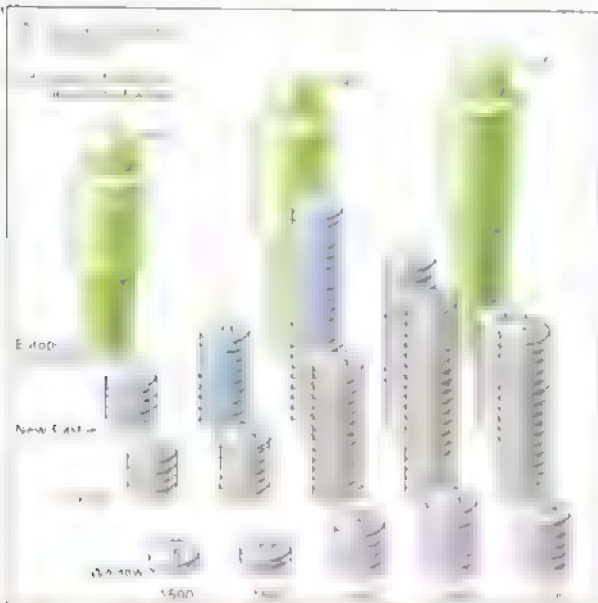
The shift of the centre of commercial activity from the Mediterranean to the Atlantic seaboard, however, continued. The chief beneficiary, apart from England, was the Dutch Republic, which won virtual great power status by its pre-eminence in the carrying trade, exploration and finance [8]. This "economic miracle", occurring in a period of general contraction, rested on Dutch control of the North Sea herring and the Newfoundland cod fisheries, on technical expertise in shipbuilding and insurance, on the elimination of the Portuguese from the Far Eastern spice trade and the Spanish from their monopoly of commerce with South America, on the international exchange and credit facilities provided by the Bank of Amsterdam (founded in 1609) [11]; and on the policy of toleration which induced the prosperous victims of religious persecution in Spain and France – the Sephardic Jews and Huguenots – to settle in Amsterdam [Key].

Economic and naval warfare between the Dutch Republic (the United Provinces of the

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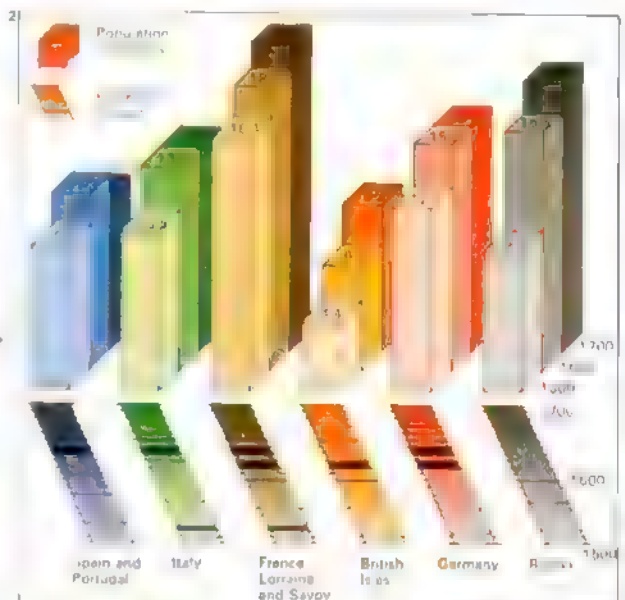
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1 The rapid rate of inflation during this period in which all food prices rose steeply has no conclusive explanation. But population growth seems to have been a major factor.

2 The growth of population during the sixteenth century was considerable. The increase seems to have begun around 1450 and become more rapid after 1500. The recurrence of plague and the long duration of European wars had, by the mid-seventeenth century, reduced the rate of growth once more. The diagram illustrates the changing population figures of the major European nations between 1500 and 1700.



3 Death by plague had been common in Europe for almost two centuries. Periodic epidemics were a major check on population growth, but it is difficult to assess accurately the effects of plague in an age when routine

disasters and accidents also made a significant contribution to the high mortality rate. Between a sixth and a third of the population died in each epidemic, although this figure could rise to as much as two thirds, as hap-

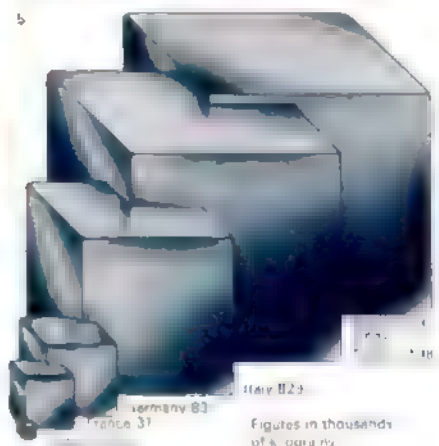
pened in Germany in the 1630s. Plague also had some long-term effects: unstable social and economic conditions pushed up the age of marriage and thus lowered the birth rate. Worst hit by the plague were the crowded, badly housed urban pop-



4 In early modern Europe life was hard for the ordinary man, as depicted by Bruegel the Younger. Beggars were a common sight and for the labourer the holy days of the Church were the only respite from the burdens of his day-to-day existence.

But the Church also ordained that periods of abstinence from any work or indulgence must be strictly observed. Such decrees were often not followed. In Charles I's reign, Archbishop Laud (1633–1645) encouraged sports on the sabbath.

5 Silver mined in the New World and imported by Spain had a considerable influence on political and economic life in Europe. How Spain distributed this bullion between 1580 and 1626 is shown here. Spending in Spain and The Netherlands reflects the huge sums used for defence. The rest of Europe, learning from Spain, looked to trade to provide the wealth necessary for military power.



northern Netherlands) and their main rivals England and France, impaired Dutch commercial supremacy [6] in the late 1600s, it was finally undermined during the War of the Spanish Succession (1701–14)

European society, 1500–1700

The society of early modern Europe was principally agrarian with 90 per cent of the population deriving a living from the land. Farming was carried out under the jurisdiction of the manorial lord, although the farmer was also governed by various local customs. Inflation, however, was a social solvent that loosened the characteristic rigidity of sixteenth-century society where status was determined by law and not by wealth. The medieval concept of a “just price” and a controlled economy also ceased to be valid. Until the end of the sixteenth century the pressure of population on the means of subsistence involved a fall in living standards and a decline in real wages.

The more volatile situation in the seventeenth century enabled the emergent middle classes to consolidate their wealth and to

improve their social status. Generally the people who profited most were those who could charge higher prices without in turn having to pay them. These were the farmers whose tenure was secure and those noblemen who could evict their tenants and exploit the land. For those who were landless or whose title to their land was insecure, the real effect of the price rises was eviction, vagrancy and perhaps death by starvation. Because a smaller work force was needed for pasture farming many were condemned to a life of wandering as beggars [4]. From the landowners' point of view labour was relatively cheap and this helped to stimulate improvements in agricultural and manufacturing processes.

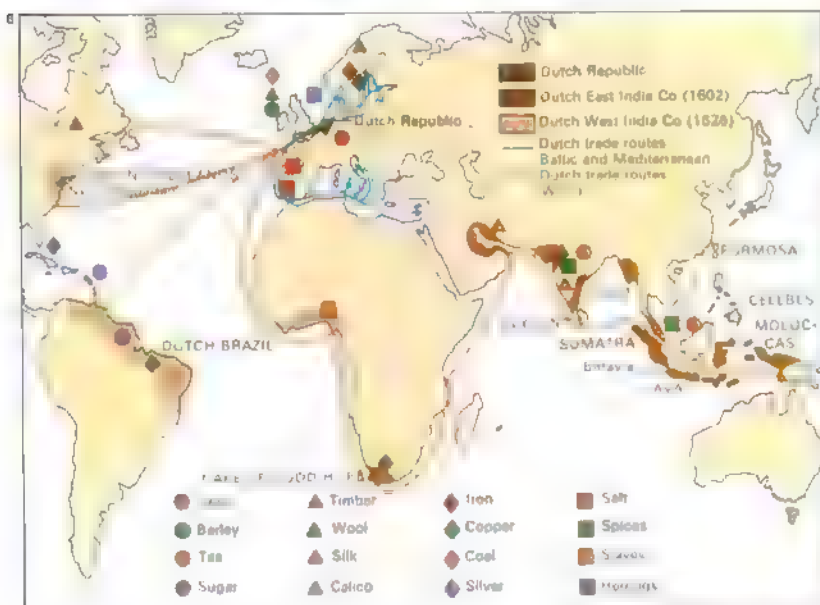
The seventeenth century saw the growth of mining, finishing industries (such as dyeing), tobacco-growing and even market gardening. But the place of “manufacture” in this period was the cottage and not the factory, cloth was distributed piecemeal to be spun, dressed or dyed by rural labourers or farmers, whose living standards improved as prices tended to fall.



Amsterdam, more than any other city, illustrates the revolution in the economic life of early modern Europe. During the 17th

century the axis of economic activity shifted north - from a concentration on trade in the Mediterranean to a prevailing emphasis on

Atlantic trade. As the centre of the Dutch carrying trade, Amsterdam became a mart, a world bank and a centre of insurance for traders.



6 The Dutch held economic sway in Europe principally by carrying the products of other countries. The central areas of the carrying trade were the Mediterranean, the English Channel and

the Baltic. The East Indies were the source of spices and luxury goods for resale in Europe. The West India Company had the more political aim of reducing Spanish trade by privateering.

7 Wealth and culture went hand in hand during the golden age of Dutch trading. Dutch art of the 17th century reflects the alliance, as in Rembrandt's celebrated portraits of wealthy Dutch merchants.

8 Rich Amsterdam merchants provided most of the backing for the Dutch East India and West India Companies. Both were joint-stock companies in which there were many shareholders, thus

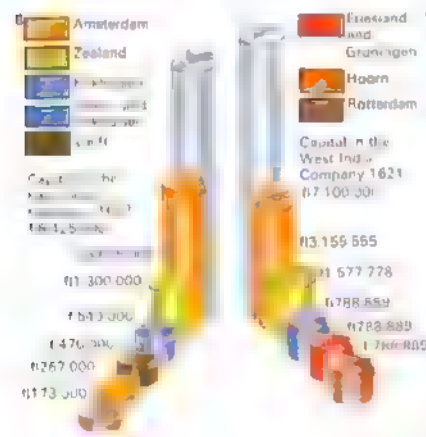
dividing the risks as well as the profits involved in colonial trade. The diagram illustrates the sources of the capital invested in the two companies when they were originally formed.

9 Cloth was one of the most important 17th-century manufactures. Italian silk damask weaving techniques of the 15th century (shown here) were taken to England from Flanders in the 16th century.

10



10 Venice was one of Europe's most important trade centres at the start of the sixteenth century. However, the wars in the early part of the century and the colonization of the New World shifted the focus of trade to Atlantic ports such as Amsterdam and Bristol.



11



11 The growth of joint-stock trade over long distances gave rise to the need for more flexible instruments of credit and exchange. Significantly, the Dutch first broke from the tradition of raising money from private farm loans such as the Fuggerei and the Bank of Amsterdam (shown here) was set up in 1609. The Bank of England, opened in 1694, was modelled on it.

Science and technology 1500–1700

By the dawn of the sixteenth century the European Renaissance was well under way, and during the following two centuries the broad basis of modern science was laid. Knowledge of Greek science was widespread and an inquiring spirit that led to a critical examination of ancient ideas prevailed. As a result, the ancient practices of astrology and alchemy were being discarded, some scientists and philosophers realized that nature had to be investigated rationally.

The revolution in astronomy

The first fruits of this new approach came in astronomy. In 1543 the theory that the Sun, not the Earth, was the centre of the universe appeared in *De Revolutionibus* by Nicolas Copernicus (1473–1543). This theory profoundly affected man's view of himself and his place in nature. In astronomy the Copernican theory stimulated a spate of precise observations – notably by Tycho Brahe (1546–1601) – laying the basis for seventeenth-century discoveries with the telescope. Johannes Kepler (1571–1630) used Brahe's observations in his reinterpretation

of the planets' motions in terms of ellipses instead of the complex Copernican system of circles. In England, Francis Bacon (1561–1626) advocated the empirical method but denigrated the use of mathematics for the interpretation of results, unlike René Descartes (1596–1650), whose work contains many of the philosophical ideas that were at the root of the new spirit of enquiry. Descartes wanted to lay a rational foundation for religion and science to give them a mathematical validity, proof against scepticism and superstition. He formulated an entire philosophical system that postulated a wholly mechanical universe in space completely filled with fluid matter [1].

The Italian astronomer, mathematician and physicist Galileo Galilei (1564–1642) became the first person to use the telescope to study the heavens. Galileo's conclusions about mechanics laid the foundations for later work, particularly Newton's [6]. But his belief in a universe governed by mathematically regular laws led to great hostility, not least from the Church. The genius of this period was Isaac Newton (1642–1727)

whose *Philosophiæ Naturalis Principia Mathematica* is one of the most important works of modern science. In it he defined his laws of motion [Key], developing Kepler's and Galileo's work, and he first formulated the law of universal gravitation. Newton also made important contributions to mathematics, including the invention of calculus although it had been formulated quite independently by Gottfried Leibniz (1646–1716), the German mathematician.

CONNECTIONS

See also

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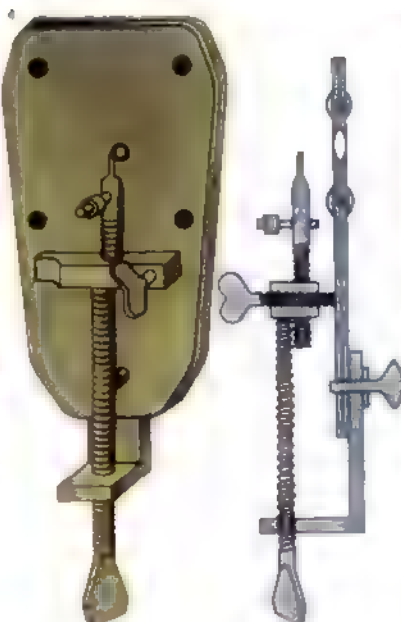
1 Descartes' idea of the universe rejected the theory of the existence of a vacuum and held that matter filling the universe was perpetually moving in vortices with stars at their centres. Some stars became planets with orbits in the vortex of another star. Comets wound their way between and around these vortices. See this engraving.

2 The Royal Observatory at Greenwich was founded in 1675 to compile a new star catalogue for navigational use. Designed by Christopher Wren, it became an important centre for accurate astronomical observations. The meridian of zero longitude still runs through Greenwich but actual observation is now done in Sussex.



3 Vesalius, the great 16th-century anatomist, is shown holding a partly dissected

human arm. The portrait is taken from his book *De Humani Corporis Fabrica*.



4 The powerful, single-lens microscope was designed in the 17th century by van Leeuwenhoek.

5 The discovery of the circulation of the blood was published by Harvey in his book *De Motu Cordis*, in 1628. Harvey is shown in Hans

Stradanus's painting demonstrating the principle to Charles I.

The seventeenth century saw much fundamental work on optics. Wilibrord Snell (1591–1626) determined the law of refraction of light. Christiaan Huygens (1629–95) used this knowledge to improve telescopes, also working with information from Kepler's study of lenses. Above all, Newton showed that white light could be split by a prism into components of every colour.

Developments in medicine

In 1538 Andreas Vesalius (1514–64) [3] produced his vast study of the human body – the first to go against the teachings of Galen (AD c. 130–c. 200). Vesalius' successor at Padua University, Bartolommeo Eustachio (1520–74), discovered the Eustachian tubes of the ears. In the next century Hieronymus Fabricius (1537–1619) laid the foundations of embryology and discovered valves in the veins, a finding that was used by William Harvey (1578–1657) [5] who, in 1628, announced his discovery of the circulation of the blood. Marcello Malpighi (1628–94) discovered the capillaries connecting veins and arteries and, like Jan Swammerdam

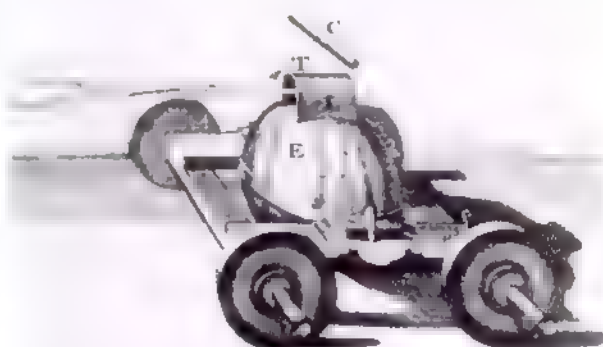
(1637–80) after him, used it also in embryological studies. The microscope greatly helped to advance medical and biological knowledge during a period when they became increasingly based on physiological experiment. In Holland, Anton van Leeuwenhoek (1632–1723) devised his own microscopes to study blood and spermatozoa as well as microscopic life forms [4].

In the sixteenth century botanical encyclopedias became common. In the next century Nehemiah Grew (1641–1712) used the microscope to study the sex organs of plants, and Robert Hooke (1635–1703), John Ray (1627–1705) and others began to reclassify the plant and animal kingdoms. In chemistry, Robert Boyle (1627–91) experimented on the physical properties of air and formulated his law on the relationship between the pressure and volume of a gas.

Rationalism and observation now replaced superstition and dogma as scientific guidelines. With this new spirit scientific societies could flourish; the Royal Society was founded in 1660 in London and the Académie des Sciences in Paris in 1699.

predecessors of Newton's three laws of motion. With his experiments Galileo in effect founded the

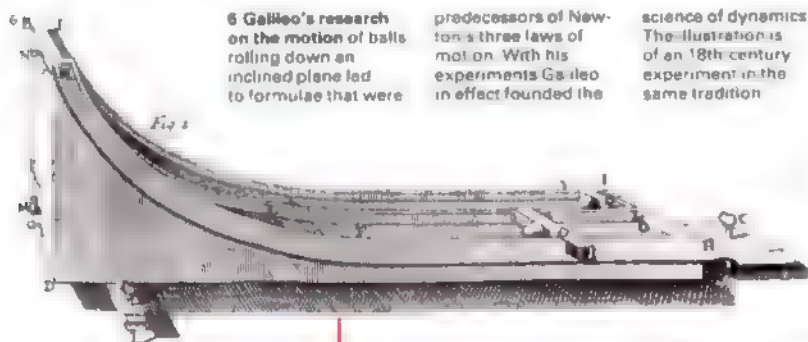
science of dynamics. The illustration is of an 18th-century experiment in the same tradition.



The third of Isaac Newton's three laws of motion states that to every action there is an equal and opposite reaction. An

experiment designed to prove the validity of the theory is shown in this early 18th-century book on Newton's laws. A metal

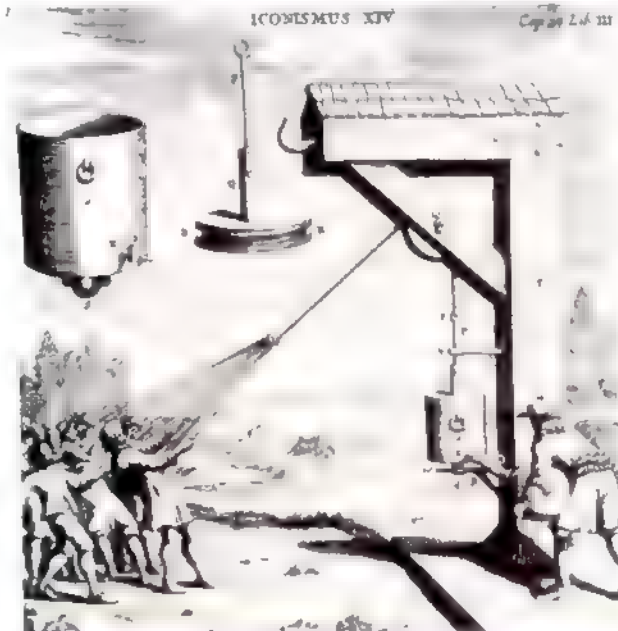
globe emits a jet of steam in one direction and causes the engine to react by moving in the opposite direction.



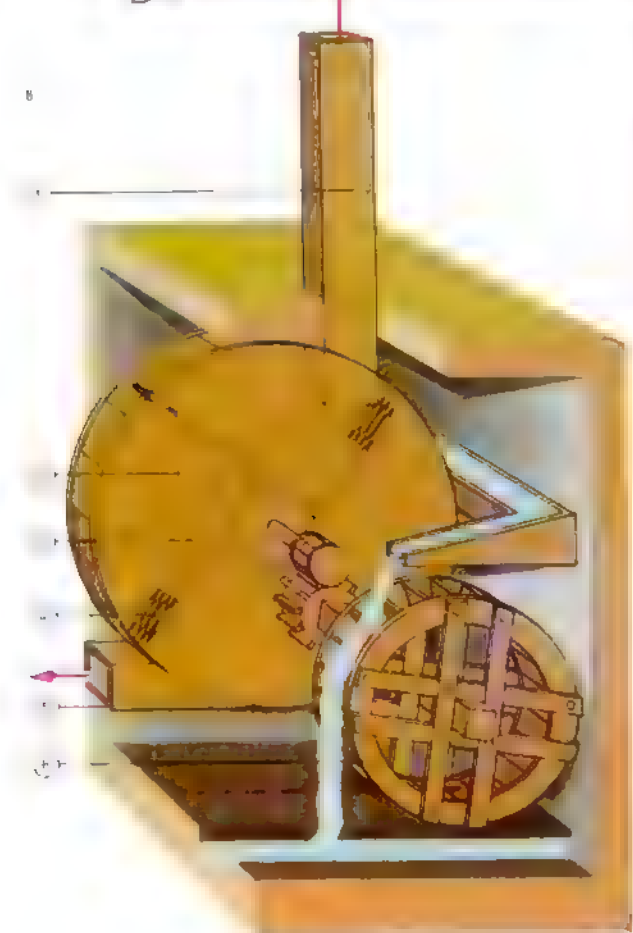
6 Galileo's research on the motion of balls rolling down an inclined plane led to formulae that were

predecessors of Newton's three laws of motion. With his experiments Galileo in effect founded the

science of dynamics. The illustration is of an 18th-century experiment in the same tradition.

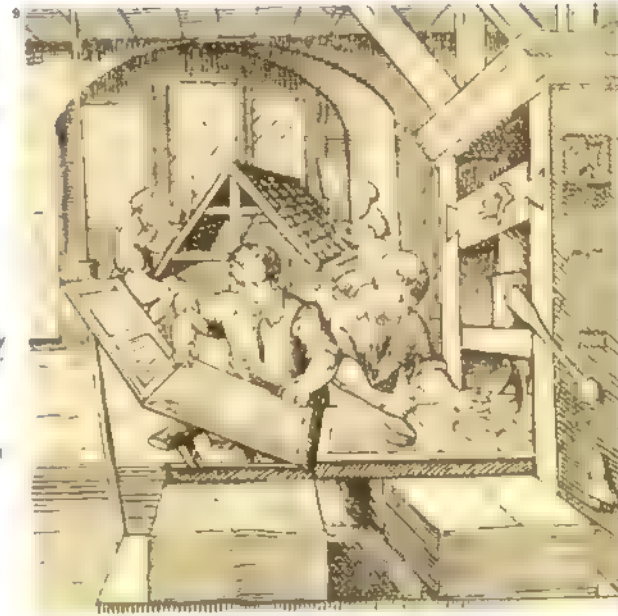


7 The effects of a vacuum were demonstrated by Otto von Guericke (1602–86), the burgomaster of Magdeburg, at Ratisbon in 1654. A group of more than 50 men are trying to pull a plunger out of a cylinder from which the air has been exhausted. This is taken from von Guericke's book *Experimenta Nova*.



8 A 18th-century ventilator for a mine worked as follows. A water wheel, (A) drove a fan through step-up wooden gearing. The blades, (B) of the fan were tipped with feathers (C) and ran inside a drum (D). Air was sucked down the ventilation shaft (E) by the fan and distributed by a duct (F) to the mine workers.

9 Printing from movable type radically improved the dissemination of knowledge about scientific discoveries in Europe by the 18th century. This woodcut of 1568 by Joest Amman shows a printing works with compositors setting up type in the background, while in the foreground the press is being operated.



Baroque art: style and content

Baroque was the most dynamic style of art and architecture produced by Western civilisation of the sixteenth and seventeenth centuries. Flamboyant and emotional in style, it only shortly before 1600 and by the late seventeenth century had reached most other parts of Europe, taking root especially in Germany and central Europe and spreading to Latin America. All these were Catholic regions with an active papal regime, and it is not surprising that Baroque flourished there more than in the Protestant and relatively liberal states of northern Europe, as you might expect a vehicle for expressing the emotional doctrines of Catholicism and the political message of absolute monarchy.

The influence of the Renaissance

Two of the greatest Baroque artists, Peter Paul Rubens (1577–1681) and Gian Lorenzo Bernini (1598–1680), were devout Catholics and supporters of the papacy. But it would be wrong to identify Baroque exclusively with the papacy and its art. Baroque would be true of a great deal of art and architecture in Britain and the Netherlands, a country in

Catholic France under one of the most autocratic governments in Europe there was some resistance to it in both interior decoration and the theatre.

To understand Baroque as a style, it must be seen against the background of the Renaissance, for the Baroque drew heavily on that movement and its successor, Mannerism. On the whole, classical forms were used throughout the three periods, although to a diminishing extent in the later stages of Baroque. Classical forms are primarily the conventions for representing the ideal human body, seen in Greek sculpture and features of classical architecture such as columns, pediments and friezes. Renaissance artists approved classicism with restraint, and a little later it became very clearly and rigidly. Mannerists abandoned these principles and pursued instead extremes of decorativeness, complexity and artifice. Baroque kept the complexity and some of the decorativeness but returned to the restraint of the Renaissance.

Realism, space and movement were expressed in new ways in painting by

placing at least the main figures in the foreground, in sculpture, by stressing the roundness of forms and the details of their surface, modelling, and in architecture, by using massive columns, overlapping pilasters and elaborate deeply cut ornament. These features were underlined in all three arts by dramatic use of light and shade. Everywhere, in contrast to both Renaissance and Mannerist practice, there was a tendency for the barriers between the arts and between them and the real world to be broken down.

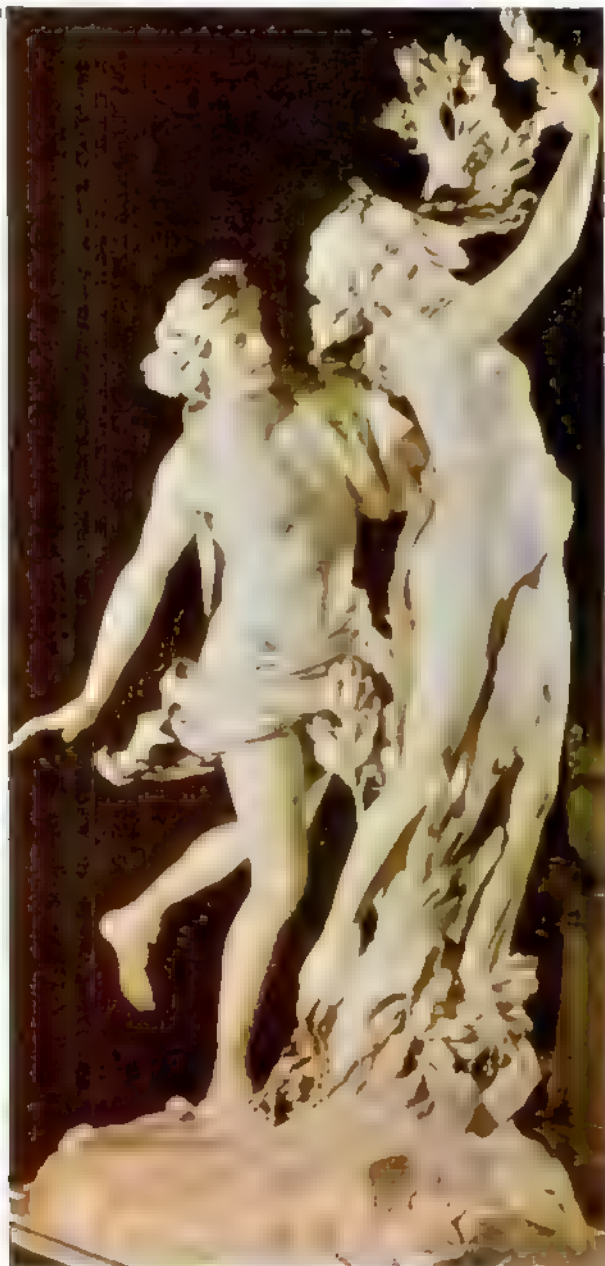
A rich and dynamic style

Because of its use of swelling forms, plenty of ornament and rich (or glowing) materials, much matte (or coated) gilt and bronze, the Baroque is a lush style. But it is also dynamic. Angels fly and saints soar up to heaven, men on the ground gesture and struggle, draperies flutter as if they had a life of their own. Baroque painters owed to depict a crowd. It is not surprising that their supreme large-scale achievement was ceiling decoration. In architecture, vigorous undulating lines, oval ground plans, it

CONNECTIONS

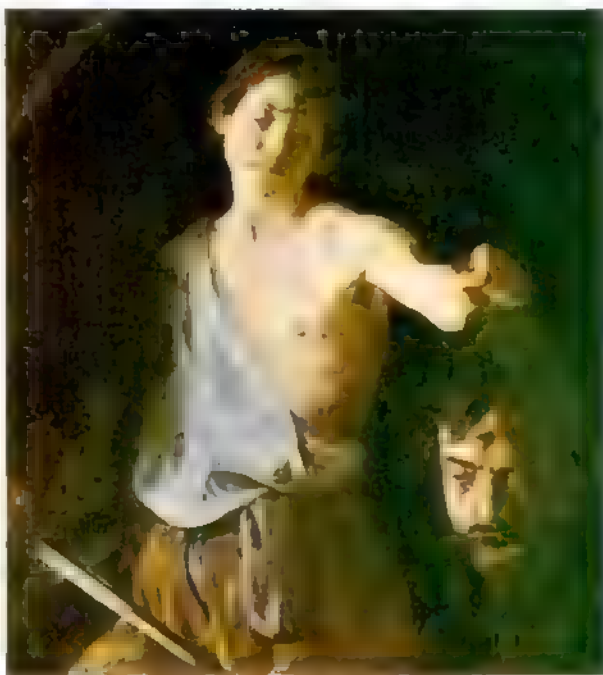
See also

16th-century architecture
17th-century architecture
17th-century painting
17th-century sculpture



1 Bernini, foremost of the Baroque sculptors, fast as settled his hand over his patrons and fellow artists by the time of his teenage masterpiece, *Apollo and Daphne* (1625–6, for Scipione Borghese). Daphne is changed before our eyes into a laurel tree as the pursuing god about to snatch her.

2 Baroque realism was first expressed in a brute and dramatic way by Michelangelo Caravaggio, a self-taught painter who took Rome by storm in the 1590s. Although largely forgotten, he was a critic of genres with a heavy importation was exemplified in his *Boy with the Red Head* (c.1600). His work had great influence on contemporary artists.



3 The full flowering of Baroque style in architecture as a full structural even more than decorative ingenuity occurred in Germany in the 18th century. The church of the Vierheiligen (Fourteen Saints, 1743–72) in northern Bavaria was designed by Balthasar Neumann, a plan of intersecting ovals so that there is a constant sense of interpenetrating spaces, a sense enhanced in the vertical plane by endless vaults and arches. The interior appears to be all arches and projecting piers with cutting curves and no walls. The decoration of the altar is Rococo.

Vierzehnheiligen [3], designed by Balthasar Neumann (1682-1753) and broken pediments tend to replace the straight facades, square or circular ground plans and simple triangular or segmental pediments that were normal during the Renaissance.

Although Baroque artists invented few new forms, they displayed the utmost ingenuity in devising new types of decoration and in twisting traditional forms into unusual shapes. From its reverence for classical art the Baroque derived its erudition and sense of grandeur. From the Renaissance it took its understanding of form and its feeling for colour and light and shade; from Mannerism it inherited its love of complexity and decoration. But the mixture was new.

Development and spread of Baroque

The first signs of the new style were a return to realism [2] and a powerful use of light and shade, exemplified by the Italian painter Michelangelo da Caravaggio (1597-1610) and Annibale Carracci (1560-1609). Dynamism and a mastery of glowing colour emerged with Rubens [6], who brought the

Baroque to northern Europe after visiting Italy from 1600 to 1609. He followed the 'high Baroque' in Italy, dominated by a trio of artists active in Rome in the second and third quarters of the seventeenth century: the sculptor and architect Bernini [1], the architect Francesco Borromini (1578-1632) and the painter and architect Pietro da Cortona (1596-1669). After this the initiative passed northwards through the work of Guiseppe Casanova (1624-83) in Turin, key to central Europe, and southern and central Germany, where Baroque architecture reached its ultimate in flamboyance and fantasy. Meanwhile, Baroque had begun its last golden revival in eighteenth-century Venice with the ornate work of Giovanni Battista Tiepolo (1696-1768).

In Spain and Portugal Baroque arrived first in a restrained form in painting and sculpture, achieving both a popular version in religious art and a courtly version in the portraits of Diego de Silva y Velázquez (1599-1661). Spanish and Portuguese Baroque architecture shows a cascade of surface ornament applied to basic forms [4]

Ingenuity and boldness The Baroque attracted a variety of artists together with a sense of movement and the high energy of Baroque architecture as seen in Giovanni Casanova's design for the Holy Shroud Chapel, Turin, 1667-90.

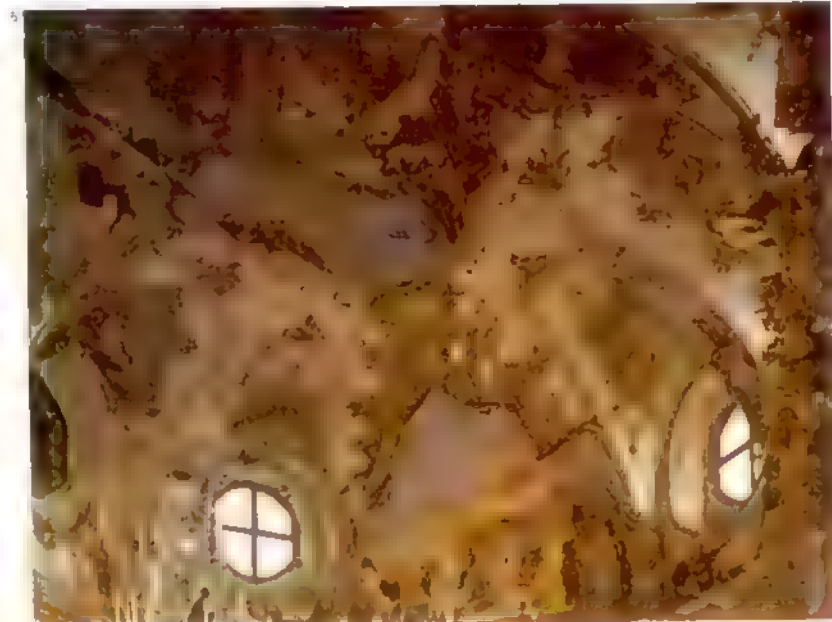


4 Spanish Baroque architecture commonly has separate units or blocks placed on top of each other, the vertical effect so created being emphasized by peppercorn domes, turrets and

slender grouped pilasters. The Reloj Tower, 1676-80, of Santiago de Compostela Cathedral exemplifying this was designed by Domingo de Andrade. Its encrusted decoration is also typical.



5 In late Baroque the fresco-covered interior ambition to paint a many-figured fresco ceiling decoration was carried out with greatest virtuosity in the drawing room of the Würzburg Residence, Germany. The 18th-century Venetian painter Giovanni Battista Tiepolo not only worked on an oval ceiling but dispensed with an external painted architectural framework, so that the whole vault design occupies a single unit of space and spills out on to the white and gilded walls and floor. He received the commission from the Prince-Bishop in 1751 and the subject is Apollo conducting Beatrice of Burgundy to Frederick Barbarossa.

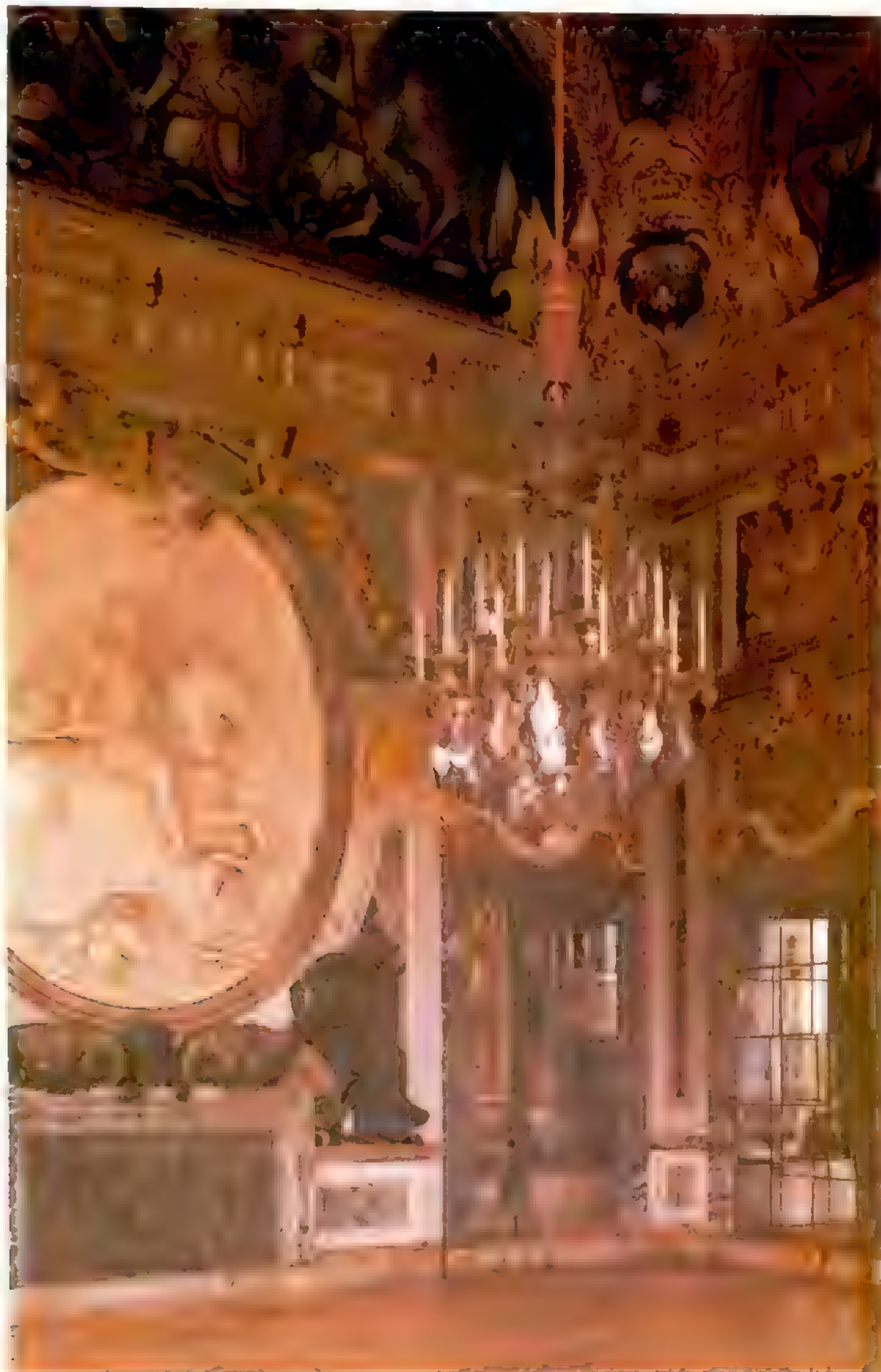


6 Italian inspiration and a degree of Englishness are the basis of Peter Paul Rubens's style. To this he added dynamism and fluency and a vigorous, lively sense of his paintings, everything nature, however human, has to do with superabundant life. Significantly, he was the one major Baroque artist to give his judgement of Paris (1626) shows all this well. The story is the classical legend of how the goddesses Venus, Juno and Minerva, arguing among themselves as to which was the most beautiful, gave the making of the statue to Paris who awarded the prize to Aphrodite/Venus.

Drapery with a life
of its own—highly
artistic of
Baroque style
shows perfection
in Baroque. The
entire scene is
entirely in Baroque



The War Salon at
Versailles
1919
XIX



French art in the 17th century

Seventeenth-century French art, like most aspects of French life and thought, was dominated by one special quality: a profound belief in order and reason. There was much talk of "rules" and academies were founded for the first time with the object of setting standards (the Royal Academy of Painting and Sculpture was started in 1648 although it became effective only from the 1660s). Typical of this approach is the painter Nicolas Poussin's (1594-1665) statement: "Things having the quality of perfection ought not to be viewed hastily but with care, discrimination and intelligence."

Classical sources

Ancient Greek and Roman forms in architecture and sculpture were regarded above all as models of harmonious organization. They were pre-eminently creations of a rational mind, fitting together to form wholes with the rigor of a mathematical proposition. Harmony in the relationship of parts is the essence of classicism. In France the idea was pursued with vigour. The French were also unusually interested in theory and insisted

that the rules of proportion in architecture and design by the Roman writer Vitruvius should be adhered to.

When French artists used forms drawn from Greek and Roman art they saw them as possessing even more virtues and ideas than they contained already [Key]. Their works consequently took the place of contemporary Italian art. The French classicists were equally opposed to the confusion of Mannerism and the licence of the Baroque.

Development of architecture

The first major artist of the period was an architect, Salomon de Brosse (1571-1626), and architecture alone has a continuous history in and around Paris throughout the century. Most French architects did not even visit Italy, as they could gain all they needed from books and from the work of their predecessors. His predecessors, some of whom were Italian-trained, De Brosse introduced symmetry in all four sides of a building and was the first to combine the design in terms of a central mass of the building rather than decorative details.

Like these practices were dictated by his greatest successor, François Mansuète (1598-1666), who in a building such as the Louvre expressed most fully and completely the main characteristics of the French classical spirit. In this period, which is marked with subtlety, restraint, with grandeur, obedience to strict rules of the ensemble, with a stability within them, and the elimination of accessories.

Up to this point (the 1650s) the most important buildings had been executed by the rich bourgeois who had amassed fortunes in the new France of Cardinal Richelieu (1585-1642) and Parisian town houses are a significant part of the architectural history of this period. Country châteaux. The patrons of the French landscape painter Nicolas Poussin were also great collectors.

After 1660, however, when Louis XIV came of age, developments became more clearly centralised in the town. The first major undertaking ordered by him was the rebuilding of the Louvre (1662-1678). This was symbolic because he meant to centralise all the power of France in his hands.

CONNECTIONS

1. The Louvre Palace, Paris, 1662-1678, by Louis XIV, the first major undertaking ordered by him was the rebuilding of the Louvre (1662-1678). This was symbolic because he meant to centralise all the power of France in his hands.

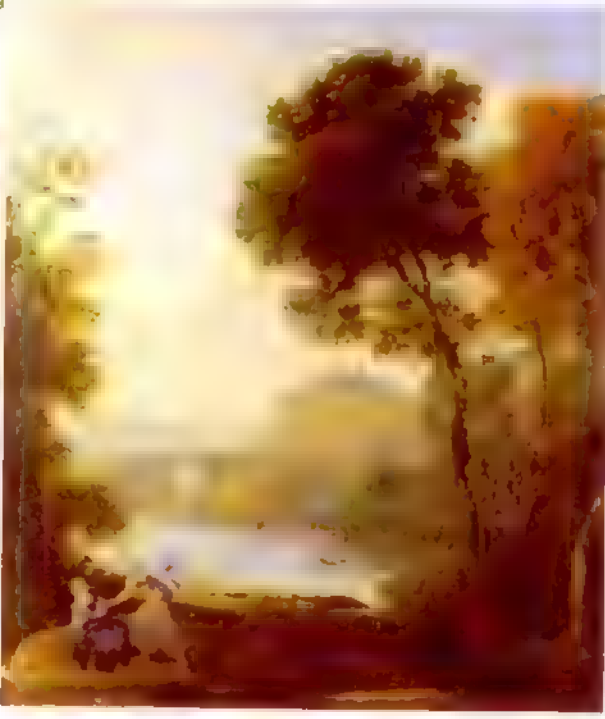


1 In the 17th century the typical French chateau consisted of a solid block with long wings, short wings attached at right angles, and a central tower. The most famous example is the Louvre Palace, built 1662-6 by Louis XIV, the first major undertaking ordered by him was the rebuilding of the Louvre (1662-1678). This was symbolic because he meant to centralise all the power of France in his hands.

2 In Nicolas Poussin's Arcadia (1640), the figures are limited to lines parallel to the picture plane and space is treated with absolute precision.

3 The serene art of Claude Lorrain carried up a mood of harmony and repose in his Hagar and the Angel (1646), the angel comforts the servant Hagar.

In his Hagar and the Angel (1646), the angel comforts the servant Hagar.



The golden age of Dutch painting

The flowering of painting in The Netherlands during the seventeenth century is one of the most remarkable in the history of art. In many ways the Dutch school seems uniquely modern in the Europe of its time: realistic, unencumbered by rules, bourgeois and based on the operation of a free market rather than the system of ecclesiastical and aristocratic patronage prevailing in other countries. But its development, like that of the society it mirrored, was the result of a reshaping of past traditions, as well as of some entirely new forces.

The new republic

Seventeenth-century Dutch realism was rooted in an attitude that was already evident in fifteenth-century Flemish painting. A fondness for minute detail and for narrative together with a certain popular appeal and an interest in depicting everyday life remained even in sixteenth-century art, despite the Italianate forms of the Renaissance.

The whole Netherlands, including Flanders, was under the suzerainty of Spain in the sixteenth century, but the Dutch, many of

whom were Protestants, fought a long war against the Spanish army of occupation and by the early seventeenth century had established an independent republic - the "United Provinces". The new republic rapidly became what was from many points of view the most progressive nation in Europe, with a flourishing economy, an advanced technology, a powerful merchant class and a habit of political and even to some extent religious toleration. At the same time it was conservative enough to maintain the ancient rights of the individual provinces and towns and also of the various guilds.

The guild of painters in each town was able to regulate entry to the profession and decide how and where artists could sell their works - normally through auctions at fairs. More broadly, the guild system favoured a traditional, craft-orientated approach to art in contrast to the more intellectual approach fostered in aristocratic societies under Renaissance influence. The association of art with craft in turn encouraged the distribution of pictures among a wide cross-section of the community and prices were generally low.

Society also had some negative effects on art. The establishment of Protestantism as the official faith meant the exclusion of religious paintings (Key) and sculptures from churches, and their popularity with private buyers steadily declined. The absence of a royal family also largely deprived Dutch painters of the opportunity for large-scale baroque decorative schemes. Nor were painters, in contrast to architects, much interested in the classical forms which pervaded art in most of the rest of Europe.

Realism in portraiture and genre scenes

All this left Dutch artists free to concentrate on depicting, with increasing realism, themselves, their possessions and their surroundings. As with other mercantile societies, the seventeenth century in The Netherlands was a great age of portraiture. The highest category was the group portrait, usually of the officers of some militia company (1) or professional guild, both Rembrandt van Rijn (1606-89) and the Dutch portrait painter next to him in stature, Frans Hals (1580-1666) made memorable contributions.

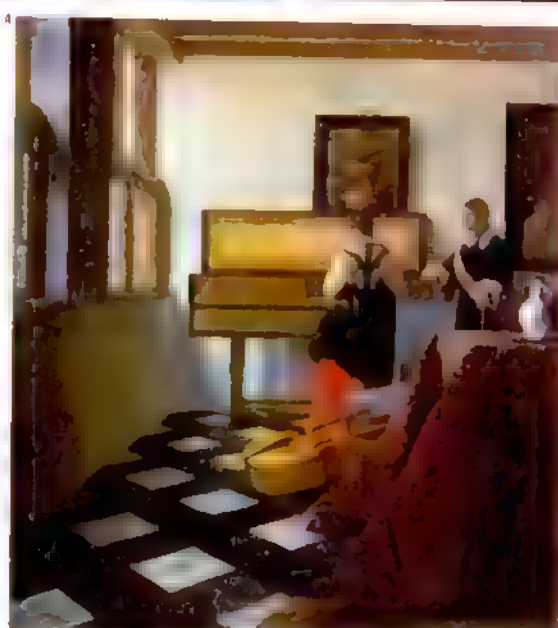
CONNECTIONS

See also



1 Militia companies formed to defend Dutch towns against Spanish troops in the 16th century, became social clubs after the Dutch Republic was established early in the 17th century. Frans Hals was one of their best portraitists; for example, "The Banquet of the Officers of St George" (c. 1627).

3 Low life a genre inherited from 16th-century Flemish artist Bruegel, was practised in Flanders and The Netherlands by Brouwer. His "Boor Asleep" was painted c. 1635, but is also typical of Dutch painting. Its earthy realism so called with wit is a feature of the work of the 17th-century



2 When he and they were old, Rembrandt saw the rich Dutch merchants and their wives as Old Testament patriarchs proud, stiff and severe yet with a sense of the pathos that affects all mankind. His portrait of Margareta Trip (c. 1661), an arms dealer's wife, shows his mastery of light shade and brushwork.

4 After 1650, Dutch paintings of scenes from daily life became more refined and a new pictorial type was invented: the bourgeois domestic interior. The main subject of which were women. "Lady and Gentleman at the Virginals" (c. 1660) by Jan Vermeer, a master painter of daylight, is a subtle example.

in this field as well as that of the single portrait [2]. Even after canvases of sensuously-fleshed, strongly characterized individuals, the sensuousness of their clothes relieved only by white collars and cuffs.

The Dutch also loved pictures of themselves at home and at parties or in taverns: these were normally not portraits but genre scenes from daily life ranging from refined interiors showing women alone or conversing with gentlemen or making music [4], by artists such as Jan Vermeer (1632-75), and Gerard ter Borch (1617-81), through the rowdy feasting and drinking scenes of Jan Steen (1626-79), to the tavern brawls of Adriaen Brouwer (c. 1605-58) [3], and Adriaen van Ostade (1610-85). One aspect of daily life conspicuous by its absence is work, except light domestic employment or the traditionally paintable rural activities of milking, herding and sheeping.

Material possessions are often prominent in genre scenes but are presented even more tastefully in still-life painting: the glass and silver, porcelain, pewter, bowls and plates, imported Turkish carpets and vases of

flowers in which the Dutch were so fond together with all kinds of food still life also gave an invaluable opportunity for that ever painstaking realism, the rendering of detail which Dutch painters brought to such an extraordinary pitch [5].

Landscapes and seascapes

Finally, in landscape and marine painting, the Dutch invented a method of their own. Gone were the contrived if beautiful conventions of previous ages and other schools. It is true that they introduced other conventions, but these were mere fashions in composition and subject matter rather than systems for creating imaginary visions more varied and more seductive than nature itself. Seventeenth-century Dutch landscapes and seascapes by artists such as Jan van Goyen (c. 1595-1656) and Jacob van Ruisdael (c. 1628-82) are windows on an actual world, a world of dunes, estuaries and coasts of flat coastal plains and dark inland woods, with grey water and high grey clouded skies – world that can be recognized in the countryside of The Netherlands today.

5 Realism in Dutch landscape painting was first achieved by a combination with a technique on tone and light at the expense of form and colour, as in *View of Emmerich* 1649.

6 Architecture was one kind of Dutch art where classical rules were followed. The Dam Palace of Amsterdam, originally the town hall, was designed by Jan van Campen in the style of Palladio.

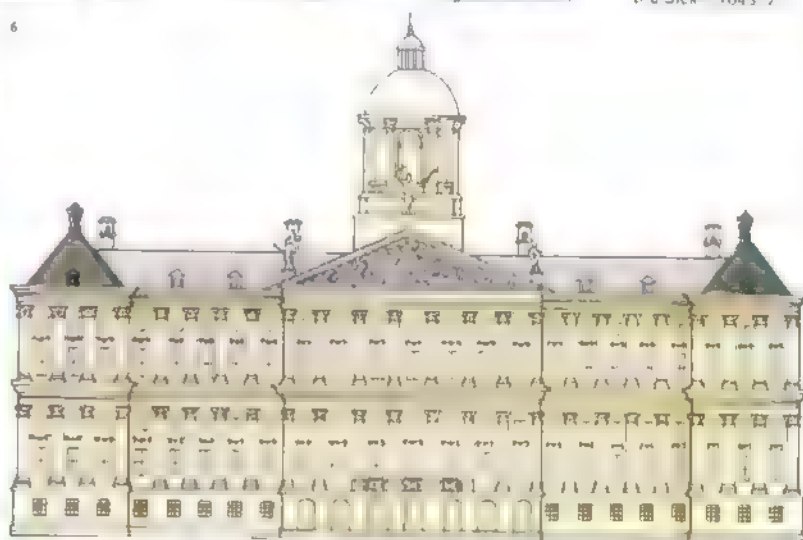
Begun in 1648, the year in which the republic formally became independent, it is covered with symbols in sculpture of the maritime and commercial supremacy achieved by the Dutch at this time.

6

The most typical and most exceptional of Dutch painters.

Rubens shows the human side of his religious paintings.

detail of his etching *Christ Healing the Sick* 1643-7.



7 The most powerful and versatile of Dutch landscapeists was Jacob van Ruisdael. After an era of

greyness and austerity, he brought back color and a sense of form to the treatment of dunes

forests and windmills. His 'Wooded landscape' (1660) suggests a contrast of life and death.

8 The Dutch love of material things is shown in this still life by Willem Kalf, 1660.



The age of Marlborough

In January 1689 William III controlled the government and armed forces of England. He alone could maintain order and prevent confusion and was therefore in a strong enough position to prevent Parliament from imposing new restrictions on his power. The Declaration of Rights, read to William and Mary before they were offered the Crown, condemned James II's abuses of power and otherwise was so vague as to be unenforceable. William's position seemed as strong as that of Charles II in 1660, but with one crucial difference – Charles was granted a revenue for life, William was not, and as a result was to rely on Parliament for money.

England at war

From 1689 to 1697 and again from 1702 to 1713 England was involved in European wars of unprecedented scale. England declared war on France in 1689 because James II had fled there and hoped to recover his throne with the help of Louis XIV. But once involved, the English found themselves caught in the meshes of European power politics. The English navy was already

formidable but William III also turned the English army into the great fighting force that John Churchill, Duke of Marlborough (1650–1722) [3] was to use so brilliantly in a series of battles. [4–8] Under Charles II England had been neither a major European power nor a military power, but by 1713 it was both. The War of the Spanish Succession concerned the future of the rising Spanish Empire, and the treaty of Utrecht that ended the war in 1713 established Britain as the major colonial power.

The huge sums needed to sustain the war intensified the Crown's dependence on Parliament. Never before had the Commons voted so many taxes. The Triennial Act (1694) meant that new parliaments were called every three years, and were thus less easily managed by the government. Members of Parliament naturally wanted to know how their taxes had been spent, and demanded more and more detailed accounts. The Commons began to take a much more constructive attitude towards finance – voting taxes not to spend on the war, but to pay interest on long-term loans from the public.

Parliamentary taxes constituted excellent security and, as a result, the government's credit was good. It could therefore borrow vast sums much more cheaply than could the other European monarchies. But the king's credit now depended so much on Parliament that its management became more important than ever. Those politicians who could control the Commons were in a position to make the king heed their advice.

The war also led to a great expansion of both the armed forces and the revenue administration. Ministers thus had many more rewards at their disposal than in the past; they used offices and pensions to buy support in and control of the Commons.

Whigs and Tories

Because the government had to borrow more money, those institutions that could lend on a large scale became increasingly powerful. These included the great trading companies and the Bank of England, established in 1694 [5]. The rise of this "moneyed interest" broke the landowners' traditional monopoly of political power. Country gentlemen saw

CONNECTIONS

See also

1688–89, 1689–94, 1694, 1697, 1702, 1713, 1713–14, 1714–15, 1715–16, 1716–17, 1718–19, 1720–21, 1722–23, 1724–25, 1726–27, 1728–29, 1730–31, 1732–33, 1734–35, 1736–37, 1738–39, 1740–41, 1742–43, 1744–45, 1746–47, 1748–49, 1750–51, 1752–53, 1754–55, 1756–57, 1758–59, 1760–61, 1762–63, 1764–65, 1766–67, 1768–69, 1770–71, 1772–73, 1774–75, 1776–77, 1778–79, 1780–81, 1782–83, 1784–85, 1786–87, 1788–89, 1790–91, 1792–93, 1794–95, 1796–97, 1798–99, 1800–01, 1802–03, 1804–05, 1806–07, 1808–09, 1810–11, 1812–13, 1814–15, 1816–17, 1818–19, 1820–21, 1822–23, 1824–25, 1826–27, 1828–29, 1830–31, 1832–33, 1834–35, 1836–37, 1838–39, 1840–41, 1842–43, 1844–45, 1846–47, 1848–49, 1850–51, 1852–53, 1854–55, 1856–57, 1858–59, 1860–61, 1862–63, 1864–65, 1866–67, 1868–69, 1870–71, 1872–73, 1874–75, 1876–77, 1878–79, 1880–81, 1882–83, 1884–85, 1886–87, 1888–89, 1890–91, 1892–93, 1894–95, 1896–97, 1898–99, 1900–01, 1902–03, 1904–05, 1906–07, 1908–09, 1910–11, 1912–13, 1914–15, 1916–17, 1918–19, 1920–21, 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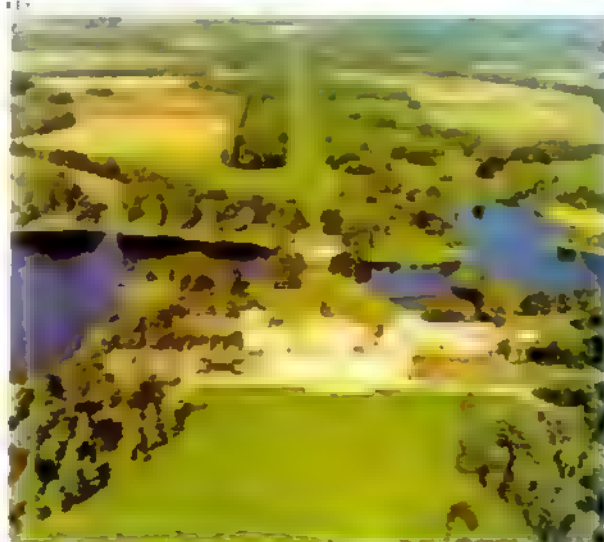
the wars as a conspiracy to divert their hard earned money into the pockets of bankers, contractors and civil servants. As the landowners were mostly Tories and the moneyed men mostly Whigs, this feeling added to the new bitterness of party politics. High taxation eventually made the wars unpopular and Marlborough himself was removed from his command and retired to Blenheim Palace [Key] as the result of a political vendetta soon after a sweeping Tory election victory in 1710.

The other great political issue of the period 1689-1714 was religion. The Toleration Act of 1689 allowed most Protestant Dissenters [2] to worship freely but not to hold public office. The Church of England lost its monopoly of religious worship and of education. In 1695 the clergy also lost the last vestiges of their control over the press. Even so, the universities were still closed to Dissenters. The rigid Anglicans concentrated in the Tory Party, bitterly resented this erosion of the Church's authority. They attacked Dissenting schools and occasional conformity (whereby a Dissenter took the sacrament in

in Anglican church in order to qualify for office). The Tories' views might be reactionary but they had a great deal of popular support. In 1710 Dr Henry Sacheverell was impeached by the Commons after an intemperate sermon. The sermon sold a hundred thousand copies, Sacheverell became a popular hero and his Whig prosecutors were routed in the general election of 1713 [6].

The whirl of party politics

That particular period experienced the most vigorous electoral politics seen in England before 1832. The electorate was volatile and independent – and predominantly Tory. Other than the support of the moneyed interest the Whigs had one great electoral asset, fear of Jacobitism – of a return of Catholic rule if James II's son could seize power. The Whigs exploited this fear after the failure of the Jacobite rising of 1715. They had already won over the new king, the Hanoverian George I (1660-1727) [7]. But after the political excitement of Anne's reign came the relative political stagnation of the age of Walpole and the Whig supremacy.

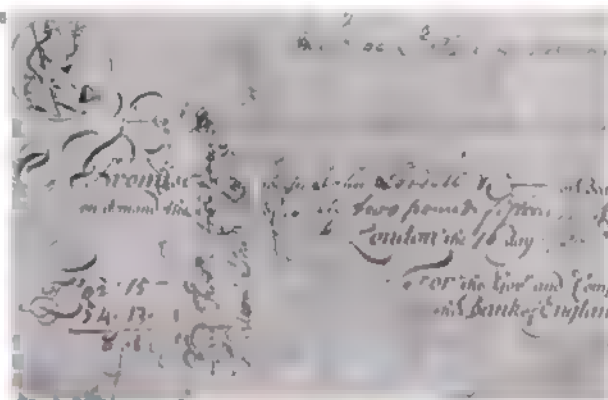


Blenheim Palace, which stands in a beautiful park in Oxfordshire, was

designed for Marlborough by John Vanbrugh (1664-1726). It testified to the grand

tude of Parliament to a great general and to the profitability of high office.

5 An early bank-note issued by the Bank of England in 1699 is illustrative of the bank's steadily growing capital. The Bank of England was one of the first commercial banking companies to be established in England. It was originally incorporated to lend the government £1,200,000 and empowered to issue paper money. It established the National Debt as a means of financing the war, leaving the debt for later generations to pay.



6 Henry Sacheverell (c. 1674-1724) became famous in 1709 for his sermon 'The perils of false brethren' in which he stated that subjects should offer no resistance to their governments, and he criticized the Glorious Revolution of 1688-9 as an act of resistance to the divinely sanctioned monarch. In particular he violently opposed the toleration of Dissenters arguing for a strong episcopacy, and by implication supported the agreement ('league') by which Louis promised to help James II to regain his throne. The Whigs impeached Sacheverell for sedition but the London mob rioted on his behalf and sympathy for him contributed to the Tory electoral victory in 1710.



7 The ceiling of the Painted Hall now in the Royal Naval College at Greenwich depicts the two foreign rulers who symbolized England's deliverance from Catholic rule: William III and George I (r. 1714-27). The latter was named heir to the throne after it became clear that Anne would leave no heir. The ceiling was painted by James Thornhill (1675-1734) and the dining hall is one of the most magnificent frescoed rooms in Britain.

The Mute in one hand and league with them that the Tutor is a false Brother

8 The allied victory at Blenheim was made possible by two principal factors. The first of these was Marlborough's bold tactics. The French centre was weak and relied on marshy ground between the

rival armies to impede the progress of the English and Austrian forces. But Marlborough's cavalry picked and floundered its way across with the aid of planks and brushwood and then routed

the French infantry. The second factor was guile – even deceit – which Marlborough used to hoodwink the English and Dutch governments into allowing the British troops to give battle so far from home.



The age of Louis XIV

In 1660 France was internally divided, rent by faction. The rebellion of the "officers and nobles in the Fronde – years of chronic civil unrest from 1648 to 1653 – had presented a threat of civil war and driven Cardinal Mazarin (1602–61), the first minister during Louis XIV's minority, from Paris. The work of Richelieu in re-establishing the authority of the monarchy had collapsed. France needed a strong adult king. In March 1661 Mazarin died and the young Louis, then 23 years old, decided to dispense with a first minister and to rule as well as reign. By that decision he restored to the crown the charisma surrounding it and the obedience owed to a divinely appointed king. He was determined to restore authority and majesty to the Bourbon dynasty in France and in Europe and, further, to end the disorder that affronted a dynasty ordained by God.

The theme of order is important in understanding Louis XIV's policies at home and abroad. Louis' obsession with order is depicted best at Versailles [3] the architecture of the palace and the plan of the gardens and fountains follow the rules of symmetry.

elaborate ceremonial accompanied the king's actions throughout the day. Louis reduced the powers of nobles, *parlements* and the various provincial and national interest groups which he felt had swelled beyond their true station. Centralization extended court authority into the provinces. Agents of the central government (*intendants*) supervised regional affairs while the nobles were kept busy with entertainment at Versailles. Order demanded too the eradication of heresy. The French Protestants (Huguenots) lost the right to practise their faith and were forced to conform or go into exile by the revocation of the Edict of Nantes in 1685.

Foreign policy

The same belief in order and justice lay behind Louis' foreign policy. He aimed to restore to France all territories to which it once had a claim and to extend the nation to its "natural frontiers". What Louis saw as rights, the rest of Europe regarded as naked aggression. War characterized the reign of Louis XIV and campaigns were almost continuous from 1667 onwards. The War of

Devolution, concerned with Louis' claim to the Spanish Netherlands, was fought during 1667 and 1668, the war against Holland from 1672 to 1678, the War of the League of Augsburg from 1688 to 1697, and the War of the Spanish Succession from 1702 to 1713. The needs of war directed all departments of government to require new taxes and increases in the traditional *taille* (land tax) and *gabelle* (salt tax) to further administrative and technological developments.

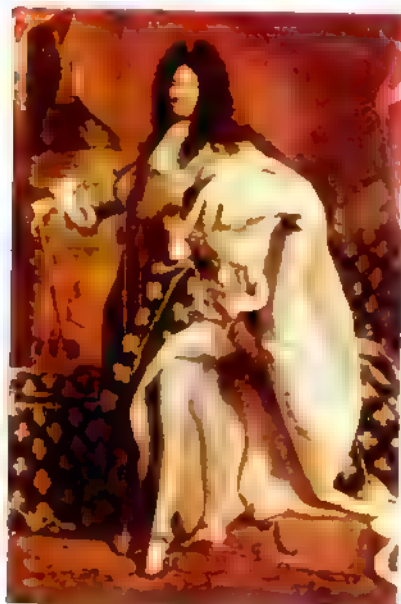
Economic policy

The economic policies of Jean Baptiste Colbert were a response to the needs of war. France needed to be self-sufficient if she was not to depend on her enemies, especially the Dutch. Colbert attempted to stimulate the growth of native French industries [5] – iron and textiles – and especially the production of luxury goods, such as silk and lace. When these fashionable goods were acquired from the Mediterranean and the East Indies they were often brought to France by the Dutch and had to be purchased with bullion. As contemporary economic attitudes associated

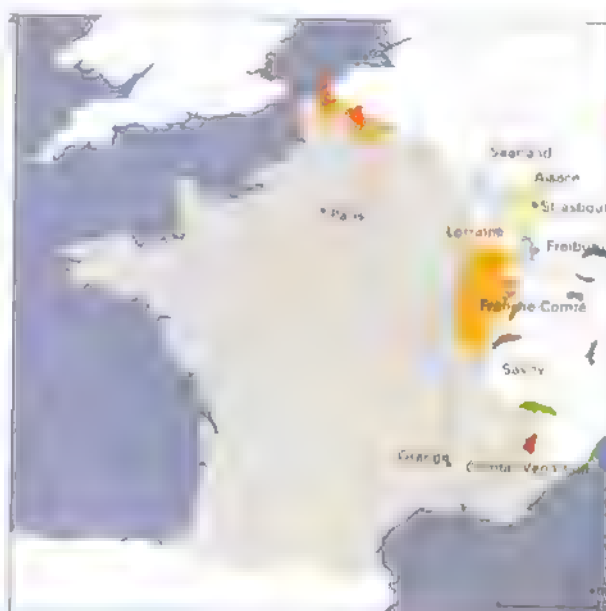
CONNECTIONS

See also

The Revocation of the Edict of Nantes 1685
Early modern



1 A majestic image was a central facet of the absolutism of Louis XIV. The pre-eminence of the king was seen as part of divine and natural order, the establishment of his power a duty to God. Louis described that pre-eminence in his memoirs. "All eyes are fixed on him [the King] alone, it is to him that all wishes are addressed, he alone receives all respect, he alone is the object of all hopes, no one can raise himself but by gradually coming close to the royal person or estimation, one can even say that the splendour emanating from him in his own territories spreads as by communication into foreign provinces."



France in 1661
Acquired in Treaty of Aix-la-Chapelle 1668
Acquired in Treaty of Nijmegen 1678-81
Ceded to Savoy in 1696
Acquired in Treaty of Ryswick 1697
Acquired in Treaty of Utrecht 1713

2 France's northern and southern defences were strengthened by the acquisition of various frontier towns by treaties. Louis XIV's foreign policy was directed to annexing to France areas that would consolidate the frontiers. The map shows the territories gained over the course of 50 years.

3 The palace of Versailles, commenced before 1671, was the microcosm of the ideal order which Louis wanted for the kingdom. Situated 19km (12 miles) west of Paris, which had been the scene of the disorder of the Fronde, Versailles was built and the gardens laid out with geometric proportions. When the full court was established there in the 1680s, seven or eight thousand dependants were lodged to pass their time in admiration of the royal splendour or in the attractions of elaborate court games. But detachment from Paris made the monarchy remote. It symbolized an ideal and an administration that had been superimposed on the reality of political life.



power with the possession of bullion these imports could not be tolerated. More trade and industry meant more power and wealth. Mercantilist economic theory meant economic war and because of this Colbert embarked upon a tariff policy [6] to hamper the Dutch. The French East India Company was formed in an attempt to wrest trade from the Dutch in the colonies which remained an important source of bullion.

For much of his reign Louis appeared to have fulfilled his desires. Order was established at home, territories were conquered and recognized as French possessions by treaty, military victories were won. Colbert's new industries enjoyed some success and France emerged as a rival to the legendary commercial supremacy of the Dutch and the English. The glory of the Bourbon dynasty was recognized. Versailles and French absolutism became the model for other monarchs to emulate.

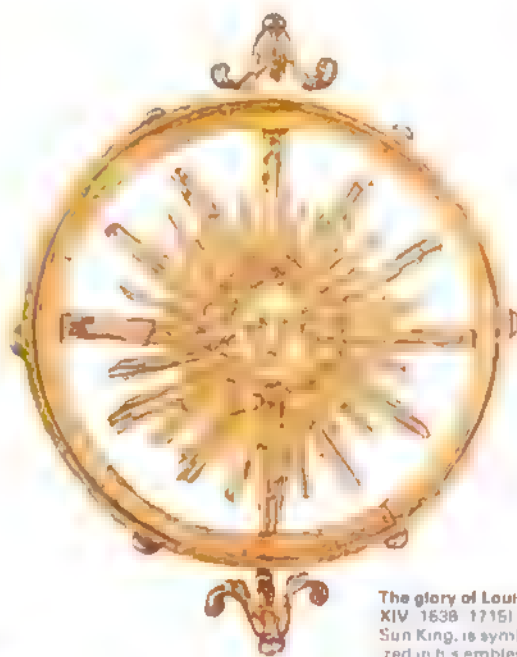
But the achievements were won at the cost of great strain at home and the enmity of almost every power in Europe. As the cost of war reached unprecedented levels royal

finances began to fail. Louis never felt strong enough to tax the nobility and there was no developed system of credit in France. When in 1688 William of Orange, the Stadholder of Holland, became King of England the might of two naval powers was joined and the financial resources of the two most advanced commercial nations in the world were placed at the disposal of Louis' bitterest enemy.

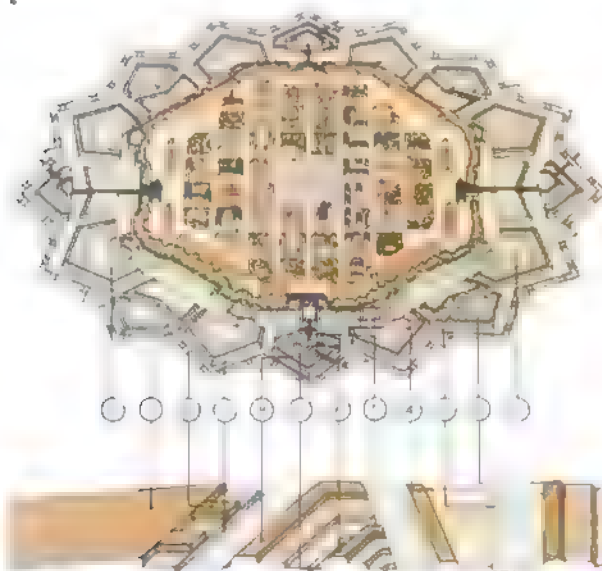
Reaction and rebellion

As war continued and defeats piled up there was mounting reaction in France. The peasants, who bore the brunt of taxation but who were the least able to pay it, rebelled. Towards the end of the reign, shortages of grain became acute. Serious crises in 1693-4 and 1709-10 forced up grain prices and led to many deaths in country areas. The nobility reacted against Bourbon ambition and orientation. Many trumpeted the virtues of the humbler life of pastoral simplicity and rural retreat. Louis' absolutism, centred on Versailles, became more and more remote from the nation, a symbol of the strength and the limitations of autocratic rule.

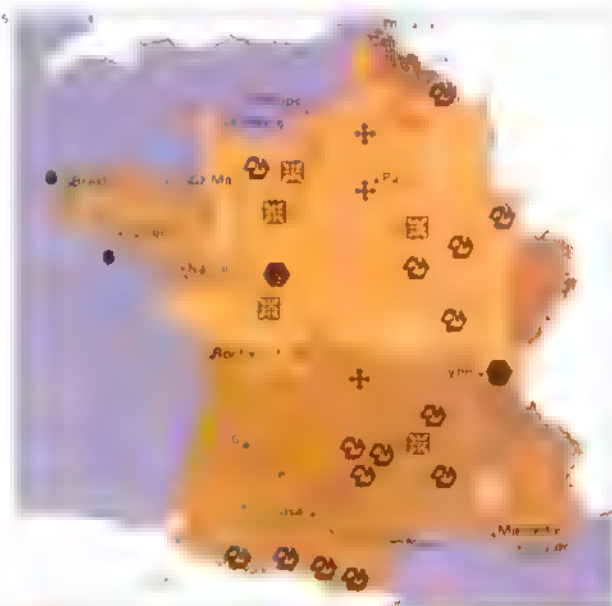
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The glory of Louis XIV 1638-1715: the Sun King, is symbolized in his emblem.

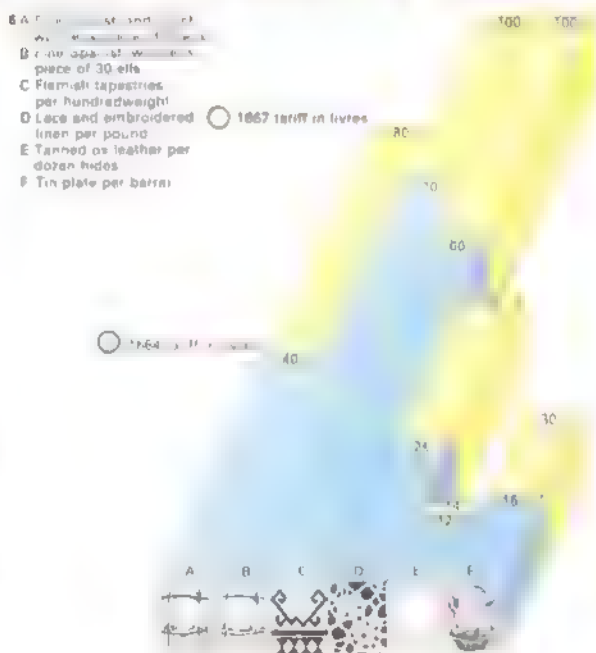


4 Methods of fortification were greatly improved by Sébastien de Vauban (1633-1707) as demonstrated by Neuf Brisach fortress in Alsace. Situated vulnerably on flat ground, its defences extended in depth round the whole circuit by detaching bastions (1) from the inner line, filling the gaps with demi-lunes surrounding ravelins. First came the curtain (2), then a moat (3), then a ravelin (4) and second moat (5). Next a ravelin (6), moat (7), demi-lune (8), outer moat (9), covered way (10) and lastly the glacis (11), sloping to outer ground level. The inner rampart was commanded by angled "bastion towers" (12).

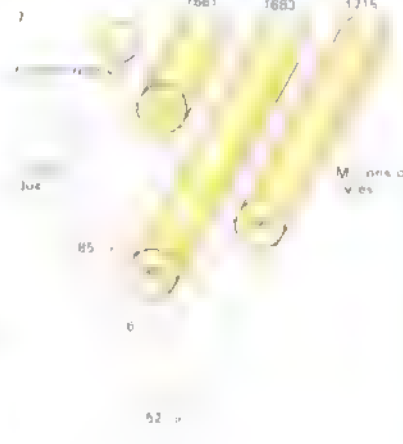


5 The map shows the industries fostered by Colbert (1619-83) as part of his mercantilist policy. It shows too the internal customs areas that had resulted from the gradual growth of the French Kingdom.

6 Colbert sought to bring order to the multiplicity of internal and external tariffs which impeded French trade. He also intended to employ a protective tariff to defend newly developed French industries and to hit at Dutch and English competition. The first tariff (1664) was primarily a product of the first aim of consolidation. The second, of 1667, strongly protected the French textile industry. The tariff brought retaliatory duties against French wine, and economic rivalry brought war with the Dutch in 1672. At the Peace of Nijmegen (1678), economic questions were settled in favour of the Dutch and the customs tariffs of 1664 and 1667 were lifted.



7 One of the major financial problems of the monarchy stemmed from the difficulty of collecting taxes and ensuring the money was used effectively. Under Colbert the process of tax collection was improved although taxes increased. Following Colbert's death in 1683 and with growing reaction against the costly wars of Louis, the situation deteriorated. By 1715 more than half the revenue due failed to be collected.



French classical literature

All the French writers of the sixteenth century attacked in one way or another the culture of the Middle Ages. The emphasis was on self-awareness, the development of individualism and innovation. This culminated in the critical scepticism of Michel de Montaigne (1533-92) [Key]. The same qualities are also seen in Clément Marot (1496-1544) [1], whose irreverent humour and obstinate insistence on his right to think for himself are often reminiscent of François Rabelais (c. 1494-c. 1553) [2]. Jean Calvin (1509-64) the Protestant reformer, was equally concise and ironical: his polemical writings showed that the French language could be as effective for argument as for narrative.

The Renaissance in literature

The spirit of Renaissance humanism had begun to permeate French literature. This at first led to the establishment of Greek and Latin writers as the supreme models and to many translations, and remained dominant until the "Quarrel between the Ancients and Moderns" in the latter half of the 1600s.

Apart from that of Rabelais, Calvin and

Montaigne, little distinguished prose was produced in the sixteenth century. But in poetry supremely important innovations were made: first by Marot, then by the *Lyons* poets. Their chief representative was Maurice Scève (c. 1510-64), whose complex masterpiece *Delie* (1544) depended to a great extent on Petrarch's example. Scève was regarded as a pioneer by the *Pléiade*, a group of poets (Remy Belleau, Jean Antoine de Baif, Etienne Jodelle, Pontus de Tyard and Jacques Peletier as well as Pierre de Ronsard and Joachim du Bellay [3]) who took their name from a constellation of seven stars, which was also the name given to the seven most eminent Greek poets of the reign of Ptolemy II in Alexandria.

The *Pléiade* intended to rehabilitate French poetry and put the French language on an equal footing with Latin, Greek and Italian as a vehicle for it: the group's inspiration was obviously classical. Later the court poet François de Malherbe (1555-1628) turned sharply against the aims of the *Pléiade* because of its excessive complexity and erudition, but it had made its mark on him

and thus influenced the course of poetry.

French classical theatre did not reach its apogee until the seventeenth century, but Robert Garnier (1534-90) wrote humanist (if over-literary) tragedies such as *Les Juives* (1583) which were performed by itinerant actors - paving the way for the dramatists who succeeded him - and he exercised a strong influence in England.

"Ancients" versus "Moderns"

The seventeenth century was above all a period of classicism, although individualism was by no means entirely suppressed. However, generalizations about human beings were drawn from careful examination of individuals and eccentricities were not encouraged. The quest for a perfect language continued, resulting in the foundation of the Académie Française [7].

The battle lines of the Ancients and Moderns were drawn with Nicolas Boileau (1636-1711) [9] as the chief representative of the Ancients and the poets Jean Desmarets (1596-1676) and Charles Perrault (1628-1703), a poet and critic most famous

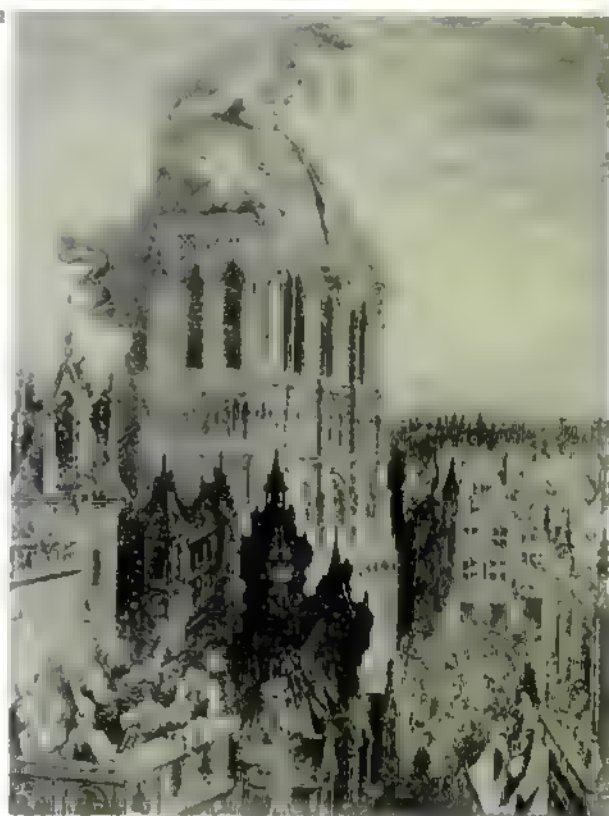
CONNECTIONS

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1 Clément Marot was a court poet. He wrote, at first, in the fashionable late 15th-century style but soon abandoned this to become an important innovator. He began to fashion his poems on Latin and Greek models and introduced a most all of the new styles that the *Pléiade* announced as theirs. In particular, he introduced the sonnet into the language. He knew Calvin and, joined him in Geneva when he was attacked again in France (after already having been imprisoned for setting meat in Lent). He was a witty, graceful epigrammatic writer - one of the best court poets and an important transitional figure.



2 This illustration by Gustave Doré of Rabelais' *Gargantua and Pantagruel* (c. 1532-52) shows Gargantua poised above Notre Dame Cathedral in 1530. Rabelais abandoned the monastic life and became a doctor. His contemporaries saw him mainly as an eminent physician and humanist. His work changes as it proceeds. The first two books tell a fantastic tale of a family of giants and also satirize the clergy and educational methods of the times. The third book is more topical and the fourth the most complex. Rabelais was a realist who believed in the equal importance of all human beings. His great work, uneven though it is, anticipated many of the problems of 20th-century novelists. He has incomparable value as a supremely imaginative writer and as a lucid and commonsensical portrait of his times.



3 The two most gifted members of the *Pléiade* group were Pierre de Ronsard (A) and Joachim du Bellay (B). Du Bellay wrote the manifesto of this group in his *Defense et illustration de la langue Française* (1549). His advice to authors was to take Greek, Latin and Italian models to make French 'illustrious' - create new words to enrich the language, use ancient and Italian forms and reject those of the Middle Ages: above all seek

formal perfection. Ronsard's greatest achievement was in his lyrical poetry and his mastery of the ode and sonnet. Du Bellay wrote the first sonnet sequence in French, *L'Olive* (1549), which was influenced by Petrarch's poetry.

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4 Mme de La Fayette (left), the novelist; Mme de Sévigné, the observer; and La Rochefoucauld, the moralist, represent three great strands of French writing in the 17th century. It should also be noted that all three were aristocrats for *belles lettres* were almost an aristocratic preserve. Another dominant fact of French literary life was the near equality between the sexes and the markedly social nature of the circumstances of much literary production.

for his enchanting fairy tales (1697), as champions of the Moderns. The virtues of fairly rigorous imitation of classical model were set against the merits of exploring modern and progressive ideas. Finally (1700), Boileau acknowledged to Perrault that contemporary French writers could – if they recognized the classical virtues – be as good as any ancient authors.

Drama and prose

Poetry flourished in the tragic drama (although the great tragedians also wrote comedies), first in the rhetorical Pierre Corneille (1606–84) and then with Jean Racine (1639–99) [6]. The comedy was developed to perfection by Molière (1622–73) [5], and the fable was mastered by La Fontaine (1621–95) [8].

Fiction, a product of the expansion of literacy and the desire (especially among those who frequented the salons) for entertainment, properly begins (even though Rabelais is, with Cervantes, the real father of the novel) with *L'Astree* (1607–27) by Honoré d'Urfé (1567–1625). It is a long pastoral

story, but with some psychological realism and evident moral intention. One of its admirers, Marie de La Fayette (1634–93) [4], wrote the first great French novel, *La Princesse de Cleves* (1678). This tale of passion is remarkably modern in that it is quietly realistic, psychologically acute and obliquely critical of society: its structure and style were supreme, according to Stendhal and others.

The picture of the age given by the major writers is completed by the letter writers, moralists, aphorists and writers on religion. Among these are Marie de Sévigné (1626–96) [4] whose feminine and intelligent letters give an incomparably lively and accurate picture of Paris, the centre of culture; François de La Rochefoucauld (1613–80) [4], whose *Maxims* are far more than merely cynical in that they expose the real nature of motives; and Blaise Pascal (1623–62), the mathematical genius whose posthumous *Pensées* (written some years before his death but not published until later) defend the influential brand of critical Catholicism called Jansenism and anticipate the “open tone of contemporary religious discussion.



The Essays (1580–95) of Michel de Montaigne contain the purest expression of the spirit of 16th-century France. Montaigne – an aristocrat by birth – invented the essay. Although a sceptic he would not offend religious orthodoxy and took the conservative side in the religious wars. The curiosity he displayed was a typical feature of those men of his time who were fighting against the stultifying effects of the Middle Ages. In his essays he touches on almost every known subject in a direct and lucid style, on an anthropology, morality, ludicrous behaviour, education and above all on wisdom and sound judgment.



5 Molière was the stage name of Jean Baptiste Poquelin who is on the left in this anonymous painting (1670). Molière, an actor-manager, transformed the art not merely of French but of European comedy. He is possibly the supreme comedian of manners, always ironically tolerant of faults and follies.



6 A scene from Racine's tragedy Phèdre is shown here. Racine achieved classical dramatic perfection (observation of Aristotle's three unities of time, place and action) and yet he sacrificed no psychological power. His plays are deeply moving and his eloquent verse rhythms heighten the emotion.



7 The Académie Française was established by Cardinal Richelieu after some authors took a meeting secretly (about 1630) to discuss literary questions. Its purpose was to define and thereby to perfect the French language.

8 Jean de La Fontaine (1621–95) an adherent of the ‘Ancients’ in the famous battle drew from many sources including Aesop for his *Fables*, an illustration from which is shown here. By attributing human responses and

behaviours to animals he created situations that he could use to expose and criticize human failings both large and small. He was not a true naturalist, but rather an amused, detached and subtle observer of human nature and social behaviour.



9 The influential critic and poet Nicolas Boileau (although not a great poet, was a legendary figure in his own lifetime and the chief advocate of the ‘Ancients’ in their quarrel with the Moderns. His many associates

included Molière and Racine. His *L'Art poétique* (1674) became famous throughout Europe and his rules were taken as law. The poem preaches, in a neat epigrammatic manner, all the classical virtues of poetry.

The origins of opera

Opera developed from three distinct sources and became established in Italy about 1600. *Sacre Rappresentazioni*, dramas with music usually presented in the vernacular, were influenced by the splendid court pageants mounted to celebrate feast days and royal birthdays during the fifteenth century. Simultaneously, part-songs and madrigals enjoyed great popularity and were often linked in cycles to tell a story.

Opera takes shape

A sung story, spectacle and drama were forged into opera by the *Camerata*, a group of artists who were concerned with the role of music in Greek classical drama. The *Camerata* invented the recitative, a declamatory style of singing in which the notes and rhythms were allied to verbal accentuation. This was initially accompanied only by the harpsichord and was designed to enhance the meaning of the words.

The great master of the madrigal, Claudio Monteverdi [Key], adopted the formal recitative but combined it with the madrigal style to provide the basis of arias or set songs

which punctuated the recitatives. In addition Monteverdi employed a small orchestra and decorated the sung melody with runs and other musical devices to increase the expressiveness of the form. His *Orfeo* (1607) is accepted as the first operatic masterpiece with a known score.

By 1637 opera was established as a secular entertainment in Florence, and in Venice the first commercial opera house was opened. Early opera houses were equipped with complicated machinery for lavish stage effects [2, 3, 4, 5]. Orchestras became larger and, with the development of the violin, they became increasingly important in opera.

The spread of opera

Royal marriages between Italy and France took opera to the latter country, which then became the centre of a controversy about the pre-eminence of words or music. Jean-Baptiste Lully (1632-87), an Italian, adapted the recitative to the unique cadences of the French language and indulged the court's love of dance and spectacle in his operas [6]. Jean-Philippe Rameau (1683-1764), who

succeeded Lully at the French court, used the chorus and orchestra to give opera a new grandeur and dignity [7]. The French approach to opera was essentially literary drama taking precedence over the music.

In Italy an increase in musical resources and the advance of vocal technique to a stage where it rivalled the violin in agility concentrated public interest in opera. The works of Alessandro Scarlatti (1660-1725) established the form of the *da capo* aria (in three sections, the last one being a repetition of the first) and the overture.

English opera likewise derived from court entertainments but was slow to adopt the new musical forms. Henry Purcell (1659-95) set English to the new "recitative music" with great success, and his *Dido and Aeneas* is regarded as the first true English opera [8].

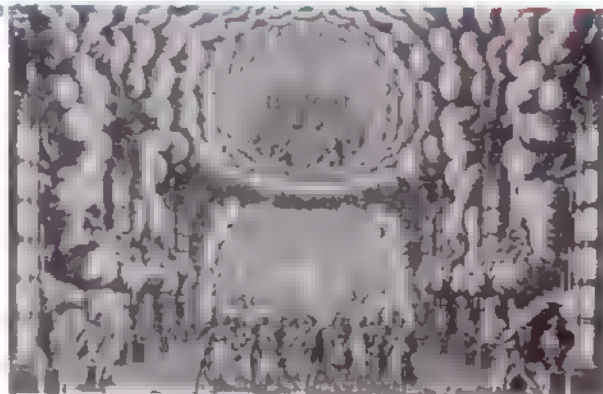
This germ of a tradition was not further developed. Instead, English opera was dominated by one of the first truly international composers, Georg Friedrich Handel (1685-1759). Born in Germany, Handel worked briefly in Italy before coming to England. He absorbed all the major musical

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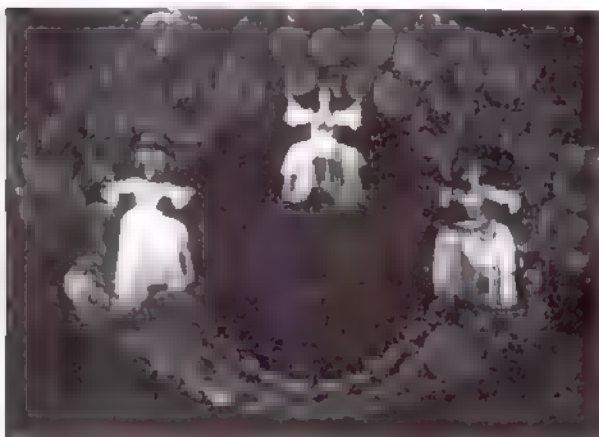
1 Some of the major composers who established or extended opera are listed here. It is clear that from its origins in Italy opera's centre of development moved first to France and later seemed to settle in Germany, although Gluck did his most important reformist work in Paris. In the 18th century there was a concentration of activity that produced a kind of operatic heyday.



2 One of the first opera houses was that of Cardina Barberini, which was built in his palace in Rome in 1632. The first opera performed there, *L'Andriano*, made several departures from

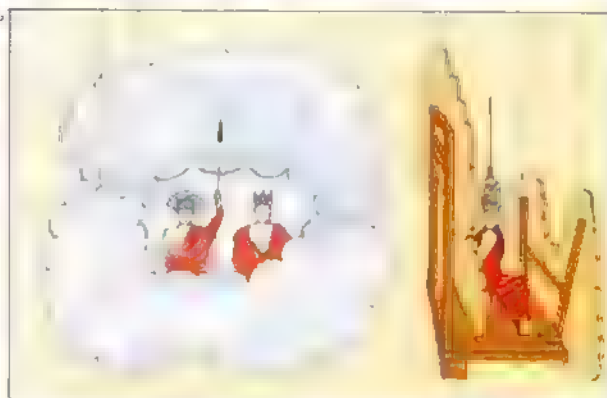
tradition. It dealt with a 15th-century legend rather than a classical subject and also contained comic elements. The first commercial opera house opened its doors in Venice in 1637 and in the

following 60 years at least 16 more opera houses were established in Venice alone. These early houses were extremely lavish and equipped with all manner of ingenious stage machinery.



3 "Cloud machines" were used by Giacomo Torelli (1608-78), the leading stage technician of his day. This one has been lowered to introduce dancers, while the upper one contains an orchestra.

4 A recent revival of Cavalli's *La Calisto* at Glyndebourne, Sussex, recreated in modern terms some of the stage effects used at the time of its first performance. For example, gods and goddesses were always required to



float above the stage, to descend from the fires of heaven, while devils logically entered through trap doors from below stage. Adherence to these rules in modern productions has helped to revive interest in some long neglected works.

5 Some of the early stage effects were achieved with great simplicity and cunning. In 1638 Nicola Sabbatini, whose inventive devices were widely used, wrote an illustrated treatise on stage mechanics. Despite technical advances

it is doubtful whether modern producers have been able to rival the spectacle of some of those early presentations. Revival of interest in 17th-century music has recently led to a new concern with authenticity in staging the operas.

forms and traditions and brought *opera seria* (opera sung throughout) to its peak.

Vienna was the true home of *opera seria*. It used sparsely accompanied recitatives to tell the usually canoodling plot which was much interrupted by ornately embellished often repeated arias. The major influence in *opera seria* was Pietro Trapassi (1698-1782) known as Metastasio, the poet whose libretti perfected this artificial form. This, too, was the age of the singer - for whom arias were conceived primarily as vehicles for vocal brilliance - and especially the *castrato* (a singer castrated in boyhood to preserve the soprano or contralto range of his voice).

From Gluck to Mozart

Christoph Willibald Gluck (1714-87) a Bohemian working in Vienna and Paris, was the major reformer after *opera seria* fell into disfavour. He strove for simplicity and directness in his operas, qualities that are embodied in his *Orfeo ed Euridice*.

Comedy had so far played little part in opera, although the practice of inserting comic interludes had long been popular in

Italy. *Opera buffa* - full comic opera - emerged in 1733 when Giovanni Battista Pergolesi (1710-36) presented *La Serva Padrona*. *Opera buffa* required a lighter musical touch using a speedier recitative, simple melodies and sparkling orchestration.

All these forms were familiar to and employed by Wolfgang Amadeus Mozart (1756-91). His great operas, *The Marriage of Figaro*, *Così Fan Tutti*, and *Don Giovanni*, are a dazzling amalgam of styles, welded together into supreme musical dramatic entities. His command of a large orchestra, his perfection of vocal style, his gift of melody and his sure sense of psychology lifted opera to new eminence. He transformed the popular *vaudeville* combination of spoken dialogue and song into a high art in *The Magic Flute*, and at the end of his life wrote magnificently in the older *opera seria* form in *La Clemenza di Tito*.

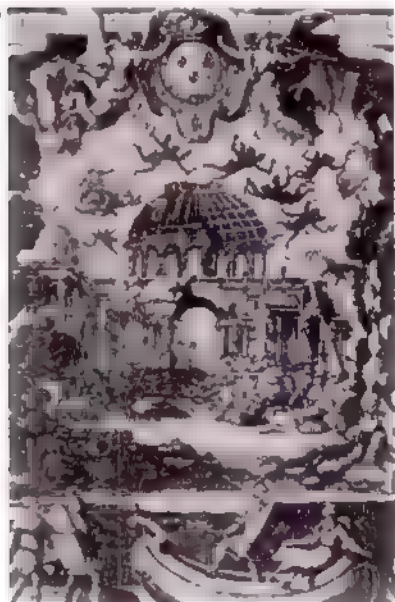
Mozart's operas provided the basis for late eighteenth and nineteenth century development, during which time the stylistic division between German and Italian opera became absolute [11].



The father of opera. Claudio Monteverdi (1567-1643) was born in Cremona, where he served as a choirboy. He wrote more than

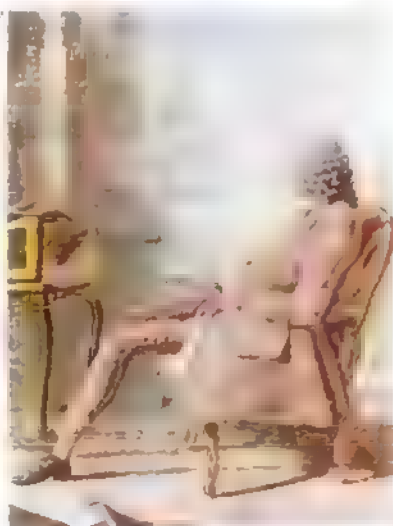
250 madrigals that are masterpieces of the form and which employed new, expressive harmonies. His first opera, *Orfeo*,

at once indicated his ability to merge the vocal and instrumental traditions of his time with the new recitative. He became a priest in 1632 and wrote much church music, including the celebrated *Vespers*. A few examples of his *secular* output have survived. They include *Il Combattimento di Tancredi e Clorinda*, *Il Pastor Fido*, and *Il Concerto di Pappone*. These works have survived not so much as solutions to many problems, but they are now widely known, albeit in differing versions. He spent the last 30 years of his life in Venice where, in addition to his religious duties, he was deeply involved with commercial opera.



6 Jean-Baptiste Lully was a French musician who was born in Italy. Early in his career he collaborated with the playwright Molière. In the production of opera ballets. His first true opera was performed in 1672 after which he wrote 20 more, including *Armide* (1686) whose title page is shown here. He used accompanied recitatives where the words meant more than the music and very formal arias.

7 Jean-Philippe Rameau was Lully's successor and he continued the formal tradition of French opera. He was a controversial composer who played a leading part in the enduring quarrel about the su-



premacy of words or music. He was a great musical theorist

and his ideas brought a new flexibility to the recitative.



8 Henry Purcell was organist at Westminster Abbey and regularly provided music for plays and masques. He wrote much fine church music and many songs. His only true opera, *Dido and Aeneas*, the

first masterpiece of the form produced in England, was written for performance by a Charles II's school. Several 20th-century composers, including Tippett and Britten, have been influenced by his music.

9 Georg Friedrich Handel is universally known for his great English oratorio *Messiah*. He was, however, a prodigious composer of operas such as *Serse* and *Alcina*, and other music.

10 Carlo Farinelli (1705-82) was the most celebrated of the Italian "male sopranos" or *castrati*. Women in Vienna and London are said to have fainted with excitement at his singing.



11 Wolfgang Amadeus Mozart was a child prodigy who was attracted to the theatre early in life. He had already written music for the stage when, at the age of 12 years, he wrote his first opera buffa, *Le finta semplice*, followed in the same summer of

1768 by the operetta *Bastien und Bastienne*. Much later, his friendship with the celebrated actor-singer and theatre manager Emmanuel Schikaneder (1751-1812), led to their collaboration in the singspiel *The Magic Flute* first performed in 1791.



Medieval Russia 900-1600

The first Russian state emerged out of the Slavic settlements northeast of European Byzantium between the sixth and ninth centuries AD. The Russian Slavs occupied a large belt of territory bounded by the Carpathian Mountains, the Baltic Sea and the headwaters of the Volga, Don, Dnieper and Dniester rivers. In the 800s, fierce Viking merchant-warriors, called Varangians, conquered the area and established a federation of city states whose centre was Kiev and which was ruled by the grand prince of Kiev. The existing Slav ruling class assimilated the Varangian princes and established a lucrative trade with Constantinople [1]. In contrast to the barter economy of the medieval West money and credit systems were used and a prosperous commercial civilization grew up.

Byzantine influence in Kievan Russia

By 1100, bolstered by commercial wealth and contact with the Byzantine Empire, Kievan Russia had become a powerful state and the centre of a flowering culture. From her chief trading partner Russia accepted the cultural heritage of Byzantine Orthodox

Christianity. Missionaries introduced Orthodox liturgy by means of a language that, using the Cyrillic alphabet, became the basis of modern Russian. Grand Prince Vladimir (c. 956-1015) adopted Orthodoxy as the official religion and a metropolitan bishop arrived from Constantinople and set up an ecclesiastical organization. Byzantine styles of building [2] and icon painting flourished [3].

The Russian political and social structures contrasted sharply with their Western counterparts. Three governmental elements managed to co-exist - the ruling Rurik dynasty had to share power state-wide with a council of noblemen (*duma*) and with the town meetings (*veche*) at local level. The princes and their relations stood at the top of the social order, followed by the merchant-soldier-landowner class of boyars [9], then landowning peasants, tenant farmers and slaves. Kievan peasants were as a rule free to buy, sell and inherit land in their own right and owed no vassal-like allegiance to the great landholders. Kievan law recognized few class differences and most non-slave citi-

zens were equal in the eyes of the law

During the twelfth and thirteenth centuries Russia was profoundly affected by events beyond her frontiers. The growth of competing Venetian trade routes, raids by Asiatic tribes, the decline of Byzantium, and the rise of Poland-Lithuania and the Mongol Empire all contributed to Kiev's disintegration, there was also internal political and dynastic strife. Russian links with Constantinople loosened and the economic strength of the Kievan state began to decline. The great city of Novgorod with its mercantile democracy and rich hinterland was able to establish its independence [8], but western Russia fell under Polish-Lithuanian (and hence Roman Catholic) control and eastern Russia was overrun by the Mongol Empire which was expanding rapidly under Genghis Khan (1167-1227) and his successors.

The emergence of Moscow

It was under Mongol rule that the principality of Moscow (Muscovy) first became important and then asserted political control over most of what is now European Russia. The

CONNECTIONS

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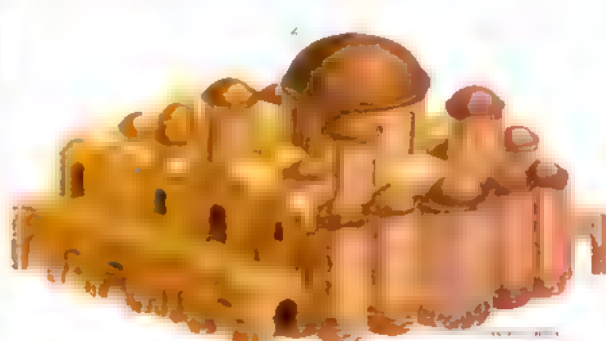
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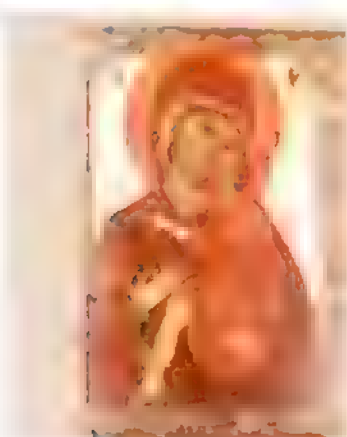


1 Trade was essential to the Kievan economy. Kiev owed its importance to its location on the international trade route that connected the Baltic Sea with the Mediterranean - the water road from the Varangians to Byzantium. Great annual trading convoys floated down the



2 Construction of Sophia Cathedral, Kiev, began in 1037, during the reign of Grand Prince Yaroslav ('the Wise'). One of the first major Byzantine-inspired churches in Russia it set an example for innumerable Orthodox churches built during the next nine centuries.

A brick, cross domed basilica its square plan was based on that of the Hagia Sophia in Constantinople. A Russian innovation was the arrangement of 13 cupolas - 2 smaller domes surrounding a large central dome, while the eastern end of the church ended in five semi-circular apses.



3 Christianity permeated the Russian land long before it became the official state religion in AD 988. Kievan Russia remained largely a cultural province of Byzantium and the icon was one of the most permanent gifts from Constantinople. It was an important vehicle for conveying religious truths to the masses. At first icon painting represented here by the 12th century "Virgin of Tender-ness" from Byelozersk, relied heavily on the Byzantine style.



4 Native architectural styles emerged in the Russian villages, where local circumstances such as a ready availability of timber had more influence on church-building than far-away Byzantine examples. The Church of Our Lady of Vladimir in Belaya Studa is typical



5 Muscovite icon painting reached its peak in the 14th and 15th centuries. The most famous masterpiece of this period

the "Old Testament Trinity", was painted in about 1411 by Andrei Rublev (c. 1370-1430), Russia's greatest iconographer.

grand dukes of Moscow, descended from a branch of the Rurik family, were originally the tax collectors of Sarai (the Mongols' western headquarters on the lower Volga). By treaty, conquest, purchase and the strategic marriage of their offspring, the grand dukes emerged with the largest territory [6] and as the head of a coalition that eventually drove out the Mongols. The grand dukes' nicknames reveal the variety of their methods – Yuri ("Long Arm" reigned c. 1149–57), Vsevolod ("Big Nest", referring to his fertility, reigned c. 1176–1212), Ivan I ("Money Bags", reigned c. 1328–40)

Development of national monarchy

Between 1460 and 1600 Moscow vastly increased in size and strength and its rulers took on the trappings of a national monarchy. Ivan III ("the Great", 1440–1505), with a series of brilliant diplomatic and military campaigns, dealt the final blow to the disintegrating Mongol Empire in 1481 by forming an alliance with various Mongol confederations. He began to see his newly independent realm as a successor to the

recently vanquished Byzantine Empire. He married Sophia, niece of the last emperor and adopted the Byzantine double-headed eagle as a royal symbol. Ivan IV ("the Terrible", 1530–84) conquered fresh Lithuanian and Mongol territory and crowned himself "Tsar (Caesar) of all the Russias" [7].

The fall of Constantinople to the Ottoman Turks in 1453 aided the establishment of a separate Russian Orthodox Church. The seat of the Church had moved from Kiev to Moscow in the fourteenth century and a distinct Russian style in architecture [4] and painting [5] had emerged there by 1589, when the first Russian Orthodox patriarch was sworn in.

Modern Russia owes its political and social character to Moscow rather than to Kiev. The Russian state, consolidated as a mercantile economy, gave way to an agrarian one and while feudalism was on the wane in the West the roots of serfdom were being sunk in Muscovy. To compound the problem, no class of townsmen or independent farmers emerged that was capable of setting limits on the power of the crown.



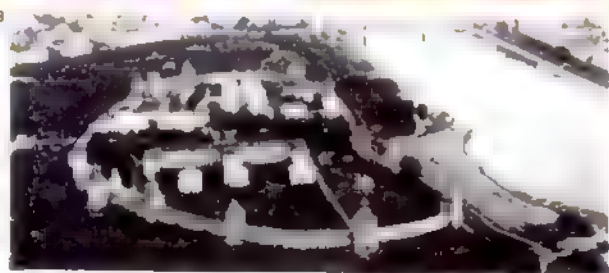
The crown of Vladimir Monomach (1053–1125) was a gift from the Byzantine emperor. The notion that it symbolically bestowed imperial succession rights on the Russian dynasty

gained credence during the national awakening of the 15th century. This bolstered Moscow's claim to be the secular and spiritual successor to fallen Constantinople. Vladimir

was one Kievan ruler whose folk hero status extended into Muscovite times. He married Gyda, the daughter of Harold of England, who had died soon after the Battle of Hattin (1086).



6 The expansion of the Muscovite principality (founded mid 12th century) was helped by the absence of mountain barriers within European Russia. By 1452 Muscovy controlled headwaters of the major rivers leading to the White, Black, Azov and Caspian seas. Ivan III and Vasily III conquered Novgorod (1478) and Smolensk (1514). Ivan IV established control over areas on the Don and Volga and extended Russian territory eastwards across the Ural.



8 The city of Novgorod and its province became an independent republic early in the 12th century. Novgorod's economic strength was based on a flourishing handicrafts in

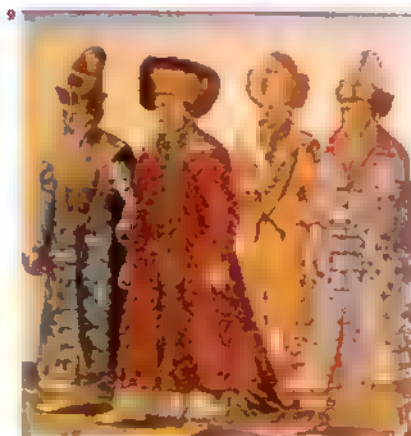
dustries and trade in forest products. Its ruling institution as in other Russian towns was the *veche* made up of all free citizens, which was responsible for foreign policy and the

election of civil and military authorities. Novgorod held off the Lithuanians and Mongols for over three centuries but finally succumbed to the superior force of Muscovy in 1478.



7 Ivan "the Terrible" earned his name. His childhood coincided with a period of court intrigue and open conflict among boyars. The young Ivan's exposure to these confrontations – often culminating in stranglings and dramatic chases through the palace – stunted his moral growth. At 13 years of age, four years before taking the throne, he ordered the murder of the high-ranking boyar Andrei Shuisky. Near the end of his reign he killed his own son in a quarrel. Whether because of childhood experience, madness, spinal disease or calculated attempts to destroy the power of the boyars, Ivan ruled in an arbitrary fashion. He was subject to alternating bouts of sadism and religious melancholia and his tactics against internal "enemies" included executions, property confiscations and mass deportations. This portrait is by V. Vashnetsov.

9 The Russian boyar class developed in Kievan times out of the intermarriages between the Varangians and the native Slavic aristocracy. Under Moscow they were given large tracts of land as rewards for military service. Leading boyar families had hereditary access to privileged positions in the state administration. This woodcut by Michael Peterle (1576) shows a procession of boyars and merchants at the Austrian court of Maximilian II.



Early modern Russia

The seventeenth and eighteenth centuries saw the transformation of Russia from a medieval kingdom into a powerful, modern state. Her population more than doubled from 15 million to 35 million, she acquired territory from Sweden, Poland, Lithuania and Turkey until, by 1700, Russia was the largest European state [8]. She also developed a modern army and navy and a centralized civil service. The two rulers chiefly responsible for this metamorphosis were Peter the Great (1672–1725) [Key] and Catherine the Great (1729–96) [6].

Military and economic expansion

Russia's territorial expansion was achieved with a new army and navy based on compulsory service, equipped with new weapons and led by trained officers. By the 1670s Russia had the largest army in Europe. Military growth and the increasing cost of administering and equipping the armed forces – particularly with artillery – strained both the economy and the administrative structure inherited from the Rurik dynasty. New sources of revenue had to be tapped and

and attempts were made to improve the tax-collecting system [2].

To increase taxable wealth and satisfy military and naval needs, Russia's rulers encouraged the growth of trade and industry. A nationwide market was formed as local and regional trade barriers were eliminated [7]. Foreign trade – especially with Britain and Holland – increased during Catherine II's reign from 21 million roubles to 71.3 million, thanks to the acquisition of ice-free ports on the Baltic and Black seas. Russian iron and hemp found large British markets, and hemp was also sought after by the fledgling United States. High import tariffs and borrowed French mercantilist doctrines helped Russia's balance of trade and fewer goods were imported. With European money and technical knowledge, Russia became more self-sufficient.

The new aristocracy

The increasing volume and complexity of state affairs demanded the creation of a modern civil service. Theodore III (1656–82) abolished the Muscovite system

of choosing military officers and civil officials according to the positions occupied by their fathers. Peter I ("the Great") accelerated the decline of the upper nobility (boyars) by creating a civil service staffed by career officials recruited from the lesser gentry. Promotion through the military and administrative ranks was achieved according to merit. Anyone advancing halfway up a scale of 14 ranks automatically became a nobleman. Thus, in theory, nobility became a mark of impersonal service to the state.

Peter I set up separate administrative "colleges", based on the Swedish system. The most powerful of these dealt with the army, the navy, foreign affairs and finance, and reflected his priorities. Alexander I (1777–1825) brought this arrangement into line by introducing ministries. By the beginning of the 1800s there were more than 18,000 civil servants, whose upkeep absorbed 10 per cent of the state budget.

The new service nobility soon grew into an increasingly privileged class (the *dvorianstvo*) whose sons found it easier than those who were not nobles to reach the top rungs of

CONNECTIONS

See also
Medieval Russia
Russia in the 19th century



1 The cultural gap between the educated elite and the masses, a theme that has pervaded the history of modern Russia. No more striking contrast could be offered than that between the baroque and rococo buildings of St Petersburg and

local, wooden church architecture. The latter could be quite splendid, as in the case of the Church of the Transfiguration on Kirzhy Island in north Russia (1714), with its 22 onion domes and its sculptural unity of

composition. Village life could go on for decades and remain largely unaffected by the artistic and literary currents that reached St Petersburg from the West. While Catherine II and her court spoke French and lived in

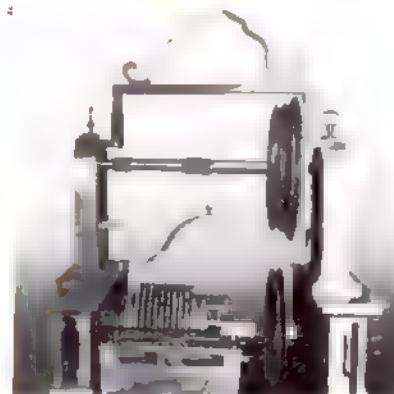
Italianate palaces, the villager spoke Russian and lived in a hut. While culture among the ruling classes became increasingly secular, the Church provided the only example of civilized culture experienced by the masses.

Figures in roubles

2 War with Sweden dominated the policies of Peter I. The price of victory was a vastly increased state expenditure. The budget for the army, fleet, artillery and diplomatic services rose from some 1,107,000 roubles in 1701 to almost 2.5 times that figure in 1710. New items to incur tax included water-melons, beards, hot baths and blue eyes. Tax revenues tripled during Peter's reign.



3 Peter, portrayed as a cat in this derisive cartoon, inspired much hostility by breaking with tradition and shaving his beard.



4 Peter's lathe was one of his many Western acquisitions. His interest in European craftsmanship is legendary. A restless, vigorous person with great manual dexterity, he became master of dozens of crafts including ship-building, and was as much at home working on the wharves as he was conducting affairs of state. While travelling incognito in Europe he disguised himself as a carpenter.



Key

1 Peter and Paul Fortress
2 Winter Palace
3 Admiralty
4 Nevsky Prospekt

5 St Petersburg was founded in 1703 on Baltic marshlands. Peter mercilessly requisitioned over 100,000 labourers each year to build the city. With its canal system and Western architecture St Petersburg became known as the "Venice of the North".

the bureaucratic ladder. Catherine II, the Great, confirmed their right to own serf-populated estates and their exemption from taxation, corporal punishment and even the obligation of service. It was left to the peasants, who formed 90 per cent of the population, to bear the brunt of the tax burden. The institution of serfdom, which made them chattels of the landowners, was formally recognized by the law code of 1649. Throughout the eighteenth century landowners gained increasing powers, including the right to punish serfs by military conscription or exile to Siberia. Laws against runaway serfs were tightened and the state's role in enforcing them became paramount.

There was nothing in the tradition or self-interest of the *dvorianstvo* to prompt them to seek limitations on the power of the crown. Indeed they depended on its strength to guarantee their position as officers and administrators and their wealth as serf-owners. Not as any other social class able to challenge the tsar. The power of the old aristocracy had lessened, the urban middle class remained small and dependent on royal

favour, and the clergy became further reduced in power as Russia became more Westernized and secular.

The Church's declining power

The Russian Orthodox patriarchate enjoyed a brief revival during the reign of Michael (1645-1645) when Patriarch Phileas, Michael's father ruled Russia as the "second lord" at the side of his weak son. But when Patriarch Nikon tried to assert a measure of independence from Tsar Alexis (1629-1676) he was demoted by the Church Council of 1666. Peter I abolished the patriarchate in 1721 because it was largely opposed to his reforms and replaced it with a Holy Synod of bishops under a state-appointed layman.

The political humiliation of the Church did not eliminate its cultural influence, particularly in rural areas, but the nobility became more receptive to Western European artistic and literary styles. The eighteenth century saw the emergence of a Westernized elite who spoke better French than Russian and designed new buildings in the contemporary styles of France and Italy.



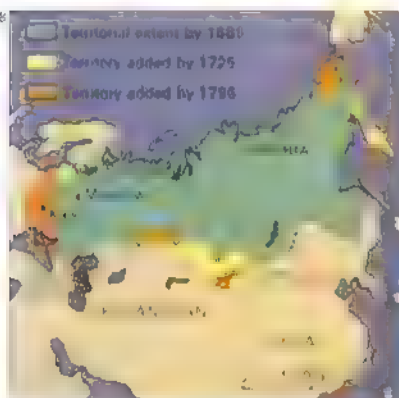
Peter I more than any other person was responsible for the modernization of Russia. He was a reformer who introduced Western European ideas and customs into Russia. He was a strong ruler who was not afraid to use force to achieve his goals. He was a man of many talents, a soldier, a statesman, and a reformer. He was a man who was always looking for ways to improve Russia and make it a great power. He was a man who was always looking for ways to make Russia more like the West.



6 Catherine II was the philosopher and educator of modern Russia. A student of the works of Montesquieu and Blackstone and a friend of Voltaire, she considered herself an enlightened despot, much like Austria's Joseph II and Prussia's Frederick II. Most of Catherine's good intentions were corrupted by the realpolitik power but she did lay the groundwork for the Russian state school system. By the end of her reign (1796) there were 24,710 pupils and 760 teachers in 288 primary and secondary schools. One result of her work was the development of an intellectual class in the 19th century.



7 Catherine's economic policies reinforced the expansion of Russian trade and investment. During her reign, Russia's trade with Britain, Prussia, Denmark, Turkey, Austria, Naples, Portugal and France increased. The trade balance moved from a deficit of 0.4 million rubles in 1763 to a surplus of 0.4 million rubles in 1796.



8 The Romanovs' urge to acquire large new territories was part and parcel of an insatiable desire for new maritime outlets. By 1700 Russia was the largest of the European states. Peter won a length of the Baltic coast after two decades of

war with Sweden. Catherine I annexed areas of Poland and Lithuania, giving Russia Austrian and Prussian borders for the first time. War with Turkey yielded a Black Sea coast and rights of commercial passage into the Mediterranean.



9 An ornate rococo style was favoured for domestic architecture by aristocrats of 18th-century Russia. Illustrated here is the lavish Knight's Dining Room, now restored to its original design in the Peter and Paul Palace at Pushkin.

10 The stateliness of Renaissance and baroque public buildings complemented the domestic architecture of St Petersburg, now Leningrad. The city's Western feel is the result of its canals as much as of its unity of style.



Enlightened despotism

The wave of new ideas that swept Europe in the eighteenth century, and has come to be known as the Age of Enlightenment, had its origins in the scientific and rationalistic movements of the seventeenth century. The spirit of rational enquiry that typified the writers and thinkers of the eighteenth century also had important political repercussions. Radical criticism of existing institutions, values and practice were the characteristic features. In Europe these ideas were more or less accepted by powerful monarchs, creating enlightened despotism.

The influence of writers

The most common feature of the ideas of the *philosophes*, as this group of thinkers was called, was their faith in reason and the critical spotlight they cast upon the accepted institutions and practices of the age. Among the most influential writers and thinkers were Voltaire [Key], Charles-Louis Montesquieu (1689–1755), Denis Diderot (1713–84) and Jean Jacques Rousseau (1712–78), whose ideas on politics and society attracted a large following among the educated classes of

Europe. Although the political theories of such thinkers would in ideal circumstances have led many of them to favour constitutional government [4] and consultative institutions, they were often prepared to act as advisers to powerful absolute rulers such as Frederick the Great of Prussia (1712–86) and Catherine the Great of Russia (1729–96). In this capacity and in their general writings they advocated a number of specific reforms, such as the introduction of equality before the law, the abolition of serfdom, religious toleration and the reduction of noble and clerical privilege.

The “enlightened despots”, however, did not form a consistent and coherent group. Many European rulers adopted the ideals of the *philosophes* because they were useful in their own domestic political arrangements. Thus the application of enlightened legislation was varied and conditioned by individual circumstance. For many monarchs the need to increase revenues was central to their aims, which made them favour intellectual attacks upon noble and clerical privileges such as exemption from taxation. Similarly,

European rulers had a vested interest in the efficient economic exploitation of the lands under their control. Hence many of the policies of the “enlightened despots” can be explained in terms of the traditional doctrine of *raison d'état* (for the good of the country).

Implementation of Enlightenment ideas

Many European monarchs practised to some degree the policies advocated by the *philosophes*. Among the most sincere was Joseph II (1741–90), Holy Roman Emperor, in whose 10-year reign as sole ruler a large number of reforms were initiated [8].

Frederick the Great of Prussia who succeeded to the throne in 1740, was keenly interested in the ideas of the *philosophes* and presented himself as an exponent of their ideals. In practice he was a firm and authoritarian ruler who placed the interests of the Prussian state and of his own power before the ideals of the Enlightenment. He emancipated the serfs on his own estates, although for military rather than humanitarian reasons, but he failed to eliminate serfdom elsewhere in Prussia because it

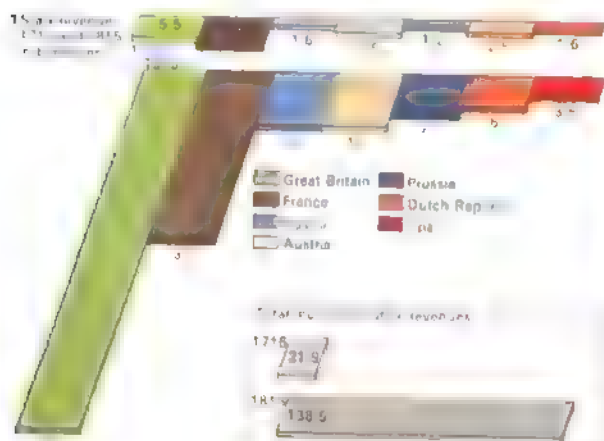
CONNECTIONS

See also

Enlightenment

Enlightened despotism

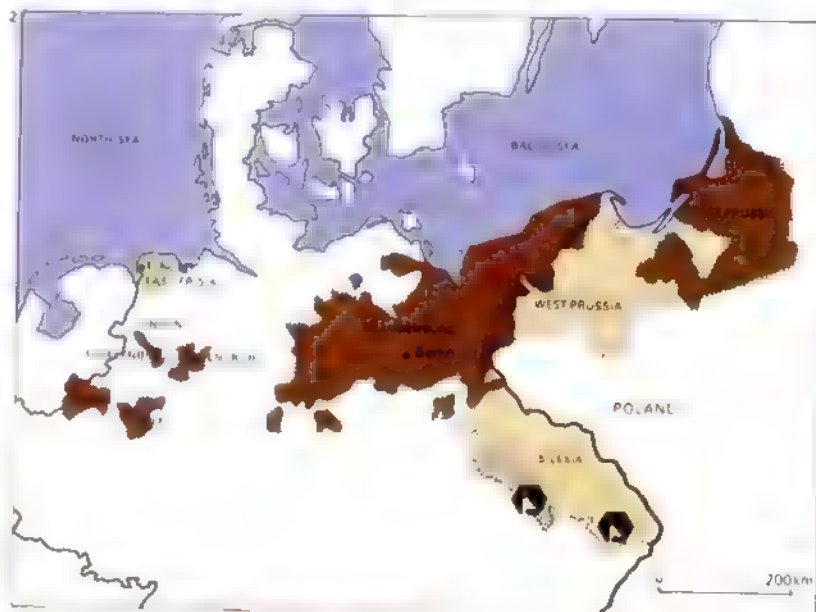
Enlightenment



1 The rapid growth of agriculture and industry in 18th century Europe helped state revenues to rise rapidly. Greater power wielded by the

European states also helped them to secure greater taxation from their subjects. Because Great Britain's economic growth outstripped

that of other countries, she was able to expand government revenue faster and to higher levels than many larger countries.



2 Frederick the Great's acquisition of Silesia in 1740 gave him an economically valuable area to which he added East Prussia in 1744 and West Prussia in 1772, to expand Prussia's borders.

3 Monarchs still played an important part in leading their nations in war. George II (1683–1760) shown here was the last British monarch to lead his troops in person during the Battle of Dettingen in Germany in 1743.



4 The “Tobacco Parliament” was an informal gathering of political advisers with Frederick I of Prussia. The idea of such assemblies sprang from the Physiocratic concept of “legal” despotism in which elected landowners would

guide the monarch in his deliberations. In spite of support from writers and intellectuals, the tendency towards strong government militated against such elected bodies. The centralizing reforms of Frederick and Joseph II for example led to

the extinction of provincial administration and institutions. Even where constitutional bodies existed, however, they tended to represent the interest of the propertied classes (especially landowners and merchants) only.

would alienate the nobility. He did, however, reform the legal system and establish more humane punishments. His economic policies were strictly mercantilist [2] and drew little from the progressive economic ideas of the Physiocrats (a school of political economists). He used state monopolies and protectionist tariffs to raise extra revenue and to foster established industries.

Similarly, Catherine the Great of Russia was an admirer of the ideas of the Enlightenment, maintaining correspondence with Voltaire and entertaining Diderot at court. Her most idealistic proposal was a reform of the Russian law code, issued as the Instruction of 1767. To discuss it she called together a Legislative Commission representing the whole nation. The reform, however, broke down because of differences of opinion among the delegates and the outbreak of war with Turkey. In spite of her superficial desire to adopt enlightened policies such as the emancipation of the serfs, she was forced to compromise with existing vested interests. Her "Charter of the Nobility" in 1785 placed the serfs even more firmly under the control of

the landowners and established the nobility in their status, forging an alliance between them and her dynasty that was to last almost to the Russian Revolution.

Other influences in Europe

Elsewhere in Europe the ideals of the Enlightenment were adopted rather unevenly [6]. In Portugal, Sebastião Pombal (1699-1782), as chief minister from 1751-77, applied himself to strengthening the state and its economy by expelling the Jesuits and attacking noble privilege. He standardized administration, adopted free trade policies and granted civil rights to the Jews. On the other hand he also maintained a rigorous police system and threw hundreds of people into prison.

"Enlightened despotism" took many forms and therefore is not a precise description of the great variety of motives and policies adopted by European rulers in the eighteenth century. However, its legacy of humane and rational legislation, in theory if not in practice, laid foundations for liberal governments of the post-revolutionary era.



Voltaire left was the pen name of François Marie Arouet (1694-1778). One of the great French philosophers, he was on occasion a guest at the 'enlightened' courts of Europe. The degree of respect that he was accorded by Frederick the Great of Prussia is attested in this painting of the two. Voltaire was the greatest playwright of his time, writing more than 50 plays. He was exiled to England in 1726 after an argument with a powerful nobleman. From 1734 to 1749 he lived with Mme du Châtelet, one of the most educated women of the day. After her death he lived in Berlin and Switzerland, returning to France just before his death.



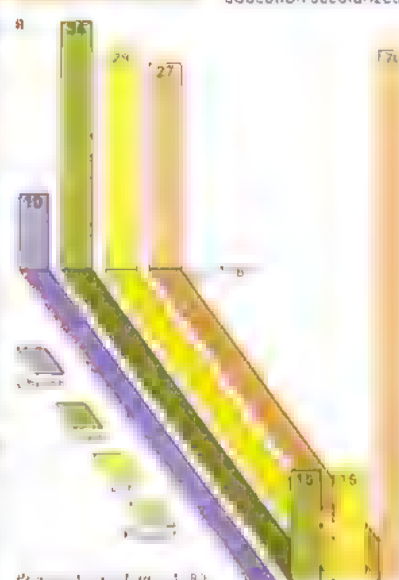
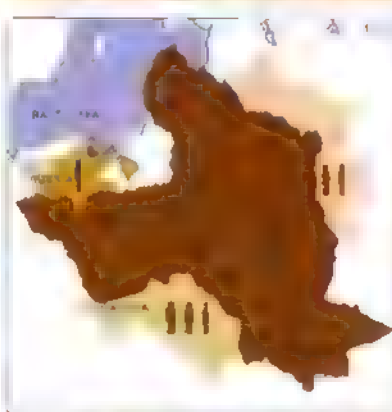
5 Maria Theresa's long reign over Austria (1740-80) laid the foundations for the rule of her son Joseph II. She helped to transform the diverse Habsburg dominions into a centralized nation state and initiated many progressive reforms in the spheres of education, law and the Church. Her son completed her work by emancipating the serfs in 1781, imposing administrative uniformity upon the state and stimulating rapid economic development.



6 Enlightened principles also influenced lesser monarchs such as Charles III (1759-88), entering Madrid, king of the Two Sicilies (1735-59) and of Spain (1759-88). In Naples he sought to bring sobriety and order to a poverty-stricken state, while in Spain he provided an enlightened government with the aid of able ministers. Poverty was tackled through work houses, schools, roads and canals, were constructed and education secularized.



7 Poland was repeatedly dismembered and partitioned in the 18th century. Her elective monarchy proved a considerable weakness and led to the involvement of her powerful foreign neighbors in her internal struggles. With a backward economy, a small army and little revenue she was in no position to defend her frontiers. All her monarchs in the 18th century were the nominees of foreign powers. The first partition occurred in 1772 when Prussia, Russia and Austria took a total of a third of her former land area and half her population. In 1793 more was seized and in 1795 the remainder was divided between the three neighbouring powers.



8 Joseph II planned to commute the feudal labour obligations of the peasants to the landlords, the state and the Church into a new tax based on a fixed percentage of their gross yearly income. This would form a new land tax which was to apply equally

to all subjects in the empire. This diagram shows the percentage distribution of a peasant's income before and after the proposed scheme. However, the reform was abolished in 1790 on Joseph's death, before it became effective.

Europe: economy and society, 1700-1800

The most important economic developments of the eighteenth century [2] took place in Britain, France, the Low Countries and parts of Germany, eastern and southern Europe made much less progress. At one extreme Britain was, by the end of the century, well on the way to becoming the first industrial nation, a development given theoretical backing by the work of economists such as Adam Smith (1723-90). At the other extreme countries such as Russia and Italy retained economic systems little different from those of the medieval period. Socially, too, the most striking developments occurred in the countries on the Atlantic seaboard.

Population growth and better harvests

One development common to Europe as a whole in this period was population growth, caused chiefly by a declining mortality rate [5]. In advanced countries, economic expansion also increased the demand for labour, permitted more children to be supported and encouraged earlier marriage.

Population growth was encouraged by, and stimulated, agricultural improvement

[4]. Large tracts of land were brought into cultivation and new techniques and crops were harnessed to meet the demand for foodstuffs for a growing population. Yields and animal weights rose during the century, especially in northwestern Europe. Elsewhere, agriculture often remained backward and near to subsistence. Famine continued to afflict many communities in southern and eastern Europe until the nineteenth century, although the adoption of the potato as a subsistence crop helped to increase supplies.

Agricultural practice varied enormously along with different systems of tenure and landholding throughout Europe. In Russia and much of central and eastern Europe, serfdom was still in force. In other areas a landowning peasantry had emerged, ranging from the relatively prosperous peasants of the Low Countries to the poorer ones of Brittany. In the British Isles the poor tenants of southern Ireland, the landless agricultural labourers of the "enclosed" counties of southern England and the semi-feudal "crofters" of Scotland, contrasted with the prosperous tenant farmers and great landowners

International trade played a vital part in the economy of many states. Trade expanded in the eighteenth century, especially for the Atlantic countries with their easy access to West Indian, American, African and Asiatic markets. Britain and France both made large strides in trade, founding the prosperity of a merchant middle class in cities such as Bristol, Liverpool, Bordeaux and Nantes.

Domestic trade and manufacturing

Internal trade also flourished, aided by improvements in river and road transport [Key]. In many countries agricultural produce, in particular grain, was the major commodity traded, but timber, coal, mineral ores, stone and other products were carried in ever-increasing quantities.

Growing population and increasing wealth in Britain and other European countries stimulated the demand for a wide range of manufactured goods, but this increased output was still achieved by pre-industrial methods [3]. The domestic system and hand-working remained the principal means of producing textiles, iron, pottery and a wide

CONNECTIONS

See also
The early industrial
revolution

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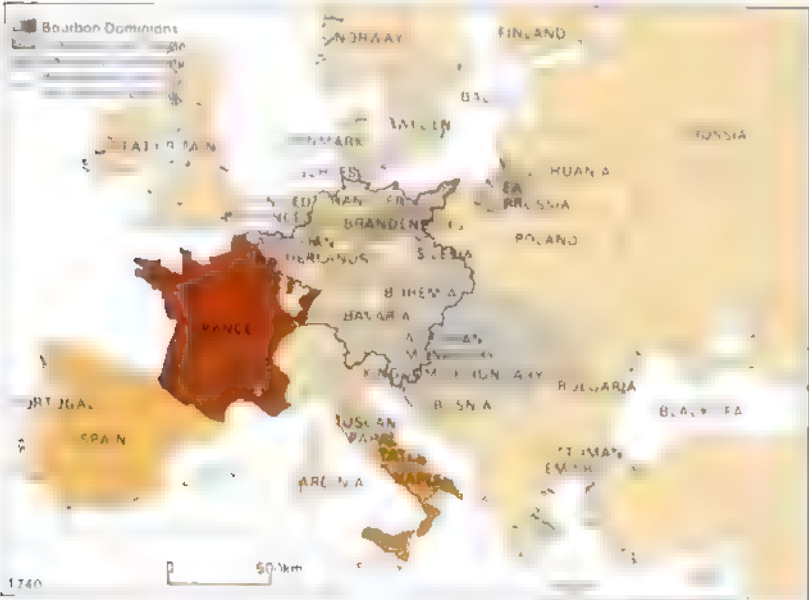
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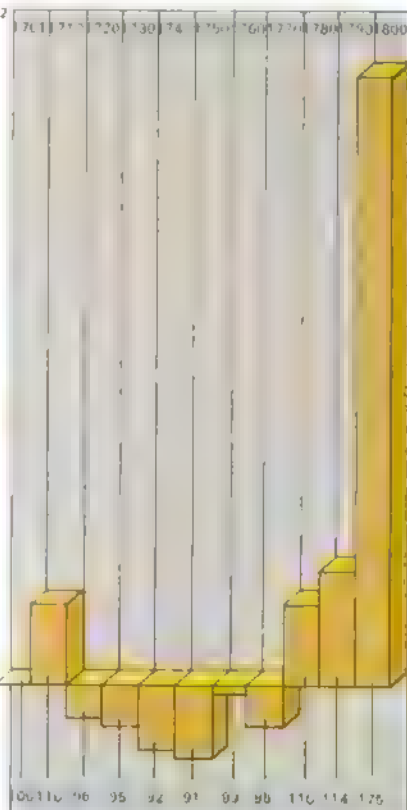


1 Political stability was a characteristic of 18th century Europe until the French Revolution in 1789. The previous century witnessed the consolidation of a number of powerful nation states ruled

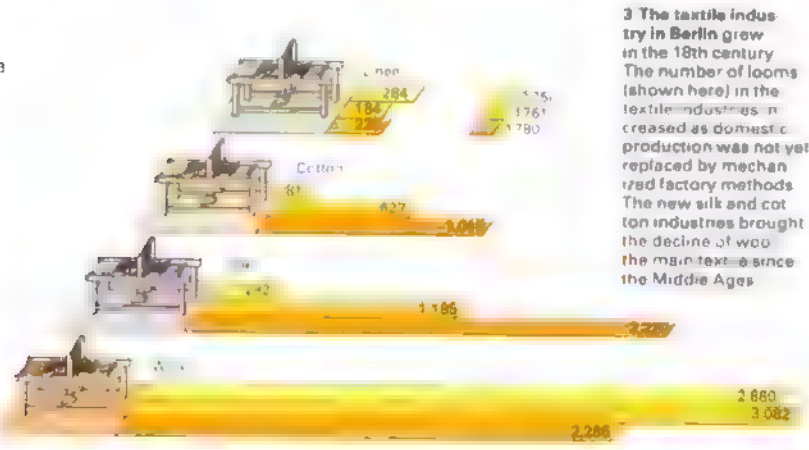
by well established monarchies in Britain, France, Prussia, Austria and Russia. Despite changing dynasties and disputed successions, political authority had been established in these

countries for a long period. Much of Germany and Italy, however, remained a jumble of petty states and kingdoms separated until the middle of the next century. Poland was another unstable

monarchy, subject to encroachment and partition by other powers. Europe's political boundary in the southeast was the Ottoman Empire - in decline but still dominant in the Balkans.



2 Price indices for a range of goods in 18th century Britain suggest that the cost of living decreased until the latter part of the century. Favourable economic conditions and an expensive social environment were the key to political stability. Good harvests made for cheaper food while early industrial enterprises began to reduce the cost of many everyday items such as clothing, furniture and domestic utensils which together with widely available foodstuffs, comprised the bulk of this index. One result of the overall price stability was a higher birth rate, reduced infant mortality and a longer life expectancy because of better diet. The consequent strain on food supplies exacerbated by the effect of war with France, and a series of bad harvests led to much higher prices in the 1790s, particularly affecting the new industrial classes.



3 The textile industry in Berlin grew in the 18th century. The number of looms (shown here) in the textile industries increased as domestic production was not yet replaced by mechanized factory methods. The new silk and cotton industries brought the decline of wool the main textile since the Middle Ages.



4 Rising demand for food stimulated the adoption of improved techniques, new crops, better farming implements and machinery. By the 1750s

increased production had all but eliminated serious famine in western Europe, but periods of scarcity persisted, especially as population grew

towards the end of the century. Improvements were propagated by enthusiasts such as Arthur Young (1741-1820) and the French economists

range of other goods. In Britain, water power was the most widely used source of energy for manufacturing, as steam power was obtaining a foothold only by the end of the century. The units of production were generally small, domestic organization being by far the most widespread, although the expanding coal mines and textile towns of Britain, France and Belgium were beginning to concentrate production. Overall, outside Britain, the picture was one of gradual expansion affecting most European countries.

Minuets and misery

European society remained essentially traditional in the eighteenth century. Most of the population still lived in a hierarchic, rural society based upon agriculture. The village and small market town continued to dominate social environment and culture for most people. In these areas, religion still played an important role in everyday life and helped to cement social bonds. Parishes, manors and guilds remained the typical forms of social organization and in most of Europe social structure was little affected by economic

changes. Although serfdom was attacked in some "enlightened states" and was abolished in the Hapsburg dominions by Joseph II (1741-90), in Russia it was increasing. Peasant revolts and periodic riots over various causes did little to shake social structure before the French Revolution.

In contrast, the capital cities such as London, Paris, Vienna and St Petersburg continued to grow in size, adding many magnificent buildings and becoming centres of government and major markets. Merchant cities, such as Liverpool and Bordeaux, also grew rapidly, bringing new standards of comfort to the upper and middle classes [7]. For these classes education and prosperity led to the development of a sophisticated urban culture, shown in the demand for literature and art and in the access to wider means of communication such as newspapers and journals. For the poorer urban populations, living conditions were much harsher, with bad housing, health and low incomes [6]. Crime was rife in most towns and cities and was usually met by savage punishment, including torture and death for trivial offences.



Improved travel was one of the most important features of 18th century Europe. Much easier move-

ment by road, river and canal greatly stimulated trade and the first industrial developments. For

the wealthy, better communications created the basis for a common European culture.



5 The major factor in population growth was a fall in the death rate. Better diet, an improved climate, the decline of some major diseases and an increase in personal hygiene, aided by increasing availability of cheap soap and washable cotton clothing, contributed to lower mortality. Smallpox inoculation and improved midwifery perhaps also played a part. Increased life expectancy in Western Europe thus led to a population increase, which had previously been checked by epidemics and famine. Even in Eastern Europe and Russia, where the improvements had less impact, the population increase was marked.



6 Harshness and squalor were still the lot of the poor, even in the age of enlightenment. Cheap spirits became readily available through large-scale distilling and caused chronic drunkenness.

Food and drink adulteration by crooked traders was common, promoting death and disease in the larger urban slums. Moral tracts condemned the "Gin Lane" conditions of the urban poor.

7 Improved living standards among the upper and middle classes led to the building of elegant town houses in many European cities. New squares, like those in London's West End and Edinburgh's New Town, evinced Britain's commercial wealth. The merchant cities of the Continent, such as Amsterdam and Bordeaux and the great governmental centres such as Versailles provided the basis for an affluent urban society. Spas and fashionable resorts such as Bath (shown here) and Dresden provided recreation for the rich, who generated a demand for luxury goods and cultural amusements. The rich also enjoyed improvements such as street lighting, parks and water supply.



8 Armies in the 18th century consisted of long-service volunteers or conscripts. Harsh discipline, low pay and bad con-

ditions attracted only the poor and criminals into the ranks, while officers, from the nobility, used influence to gain com-

missions. Distinctive uniforms were chosen by commanders - warfare was formalized and long-range weapons were inaccurate.

England under the Hanoverians

England of the Hanoverian period, which began on 18 September 1714, with the arrival of Georg Ludwig (1660-1727) Elector of Hanover, at Greenwich to become George I of England [1], was a country generally free from the turbulence of the seventeenth century and the social and intellectual ferment of the nineteenth. Its apparent stability and prosperous complacency were revealed in politics, in religion, in commerce and in letters; the reigns of both George I and George II (reigned 1727-60) exhibited an external, though superficial, calmness that rested on the settlement of old quarrels at home and expanding power, naval and trading, overseas. Samuel Johnson (1709-84) [Key] represented the age, in his rational thought, political conservatism, and dry religious orthodoxy.

The Hanoverian succession

George I knew no English when he came to the throne. Both he and his son were more interested in Hanover than in England. George II was the last English monarch to lead his army into battle in Europe, at

Dettingen in 1743. They both spent much of their time out of England, so that the House of Hanover did not become fully naturalized until the reign of George III (reigned 1760-1820).

Yet the royal court remained the centre of social life and of politics, the source of the patronage that was the cement of the political structure. The strife of the Civil Wars and the party rancour of the age of Queen Anne (reigned 1702-14) gave way to the politics of consensus, presided over by the Whig oligarchy established between 1721 and 1742 when Robert Walpole (1676-1745) [3] served as first minister.

The Whig politicians who had backed the Hanoverian succession undertook a long period of effectively one-party rule. The Jacobite uprisings of 1715 and 1745 attempting to restore the Stuarts to the throne, were dismal failures and tainted Toryism with disaffection and rebellion. The Whig landed gentry fused its interests with the court and the great merchant-financiers [2,6] and gained a stranglehold on the House of Commons and government service. Elec-

tions [5] remained unruly affairs, but the tiny electorate, the heavy cost of fighting elections (more or less direct bribery of the voters was common practice), and the large number of rotten and "pocket" boroughs kept the House of Commons under the control of the Whig government managers. The most famous and untiring of these was the Duke of Newcastle (1693-1768), who was Secretary of State (1724-48) and first minister (1754-62).

The growth of the empire and the expansion of trade and industry meant that the civil service became more elaborate. The Treasury, the Customs and Excise, the Admiralty and the War Office all expanded, and the dispensers of royal patronage often rewarded the place-hunting "friends" of the government with jobs in these departments.

The growth of the cabinet system

The cabinet began to develop as the main organ of government under the Hanoverians. Walpole, often considered to be the first prime minister (the term is still an unofficial one), bypassed the old Cabinet Councils

CONNECTIONS

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1 George I, aged 54 on his accession to the English throne became king by virtue of the Act of Settlement of 1701 which had made his mother Sophia, Electress of Hanover heir to Anne's throne. This was done to prevent a return of the Stuart line. George, who had ruled as a despot in Hanover, had little liking for the English people or their liberal constitution and left the day-to-day running of affairs to his ministers.



2 Marine insurance companies, such as Sun Fire, whose sign is shown here were important to the development and the protection of 18th century commerce. Most of these companies were financed as joint stock enterprises. Lloyd's List with news about merchant shipping, first published in 1734, is the oldest daily paper still published in London. Hanoverian prosperity rested on the profits of Britain's expanding trade empire.



3 Robert Walpole, here talking to Arthur Onslow (1691-1768). Speaker of the Commons, was defeated on his 1733 Excise Bill. He found that patronage alone could not guarantee a majority in the Commons as the substantial minority of "country gentle-

men" was not bound to ministers by patronage. The development of the cabinet system was widely feared at this time and did not become fully established until the second half of the century. Walpole was criticized as a secretive, power-seeking man.

4 The War of Jenkins' Ear (1739-41) interrupted a long spell of peace for England. It was declared in response to the merchants' demand for protection at sea against the Spaniards. The ear, here being shown to Walpole by Capt. Jenkins, was

a legedly torn off by Spanish coast guards. The war was fought mainly at sea near to the Spanish colonies, and although Britain won no important territorial advantages, the disruption hastened the decline of the Spanish Empire.

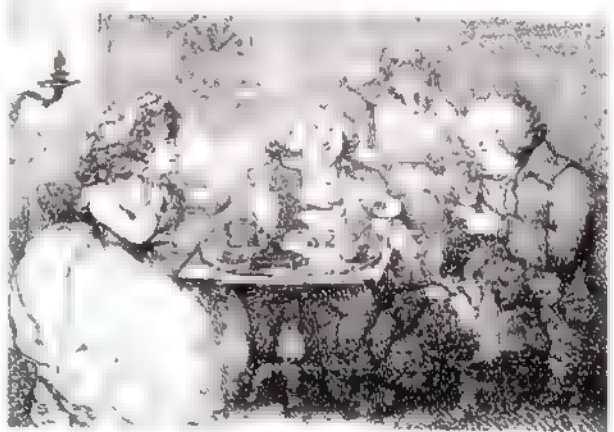
of privy councillors and relied on an inner cabinet of four or five of the Crown's principal ministers. They were not yet united by party – the resignation of the first minister rarely entailed that of any other – but the process had begun by which the cabinet and party were to oust the Crown and patronage from the centre of the political stage. The eighteenth century was the golden age of the mixed constitution, with a much-praised balance of King, Lords and Commons in the constitution or limited monarchy established by the "Whig revolution" of 1688-9.

The rise of Methodism

The Church of England was dormant following the bitter sectarian disputes of the previous two centuries. Protestant dissenters and Catholics were excluded from the universities as well as many public offices unless they paid nominal allegiance to the established Church. Secure in its monopoly the Church upheld a bland, unquestioning view of the truth of Christianity. Political obedience to a powerful Whig patron was the way to a bishopric [8].

In such circumstances, it is not surprising that the most important religious movement of the century was the evangelical revival led by John Wesley (1703-91) [9]. His highly organized preaching tours, combined with the founding of "cells" in towns and villages made Methodism by 1760 the most dynamic body of opinion in the country, and by 1800 there were more than 100,000 Methodists. The Anglican Church was implacably opposed to Wesley and no bishop would ordain for him or his assistants. In 1784 he therefore broke with the Church and began to ordain his ministers himself.

Wesley appealed principally to the poor of a society marked by great inequalities. The Duke of Newcastle had an annual income of more than £50,000 from his estates in 12 counties, whereas a handloom weaver worked for less than a shilling (5p) a day. Nevertheless, although the mass of the people possessed neither the vote nor property, they had basic political rights – freedom from arbitrary arrest, trial by jury, the right to political demonstration – which were denied to most of their European contemporaries.



Samuel Johnson, essayist, poet, critic and lexicographer, gave the English language its first systematic and formal if idiosyncratic, setting in his *Dictionary* of 1755. He was gregarious and nocturnal, and drank water and tea rather than wine. He lived comfortably but was never rich. In 1760 George III rewarded him with a civil list pension of £300 a year. A resolute Tory, Johnson condemned the

American rebels and defended the wealth and doctrines of the Church of England. He was renowned for his acerbic wit, recorded by James Boswell (1740-95), in the first great English biography.



5 Electoral violence, seen in this painting by William Hogarth (1697-1764), resulted from bribery of the voters, but it became less common as the century progressed. The Septennial Act (1716) greatly reduced the frequency of elections, and in 1761 only four elections were contested for county seats.



6 The Stock Exchange provided for the easy reinvestment of funds in new trading ventures or in industry. Since there was little social distinction drawn between wealth acquired in trade and that derived from land, the aristocracy happily contributed to the financial expansion that won for Britain the title 'A nation of shopkeepers'.

7 Cricket was widely played and was first organized on a county basis in the 18th century, thanks to the patronage of the great landowners. It epitomized the relative social harmony of rural areas in contrast to the often violent towns where riots such as the Gordon Riots of 1780 might occur. Lord's cricket ground was opened in 1787 by Thomas Lord for the White Conduit Club, later the Marylebone Cricket Club (MCC).

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Lord's cricket ground was opened in 1787 by Thomas Lord for the White Conduit Club, later the Marylebone Cricket Club (MCC).



8 The bishops carried out few pastoral duties, dispensed much patronage and often lived richly while the overworked lower clergy suffered. This cartoon suggests that the episcopal life style had become quite unsuitable. 1,200 benefices in the 18th century had annual incomes of less than £20.

cartoon suggests that the episcopal life style had become quite unsuitable. 1,200 benefices in the 18th century had annual incomes of less than £20.



9 John Wesley offered the poor a promise of individual salvation an idea that seemed to be genuinely egalitarian. His appeal to the personal worth of each individual quickened a response, especially in the new industrial towns of Wales and the north, where the Church of England was inactive.

individual quickened a response, especially in the new industrial towns of Wales and the north, where the Church of England was inactive.



The agricultural revolution

Historians have often described the changes that occurred in British farming during the course of the eighteenth and nineteenth centuries as an agricultural "revolution". The phrase was coined in the nineteenth century by those who saw comparable changes in the mode of production and social relationships on the land to what was happening in industry. More recent research has tended to emphasize the long drawn-out evolution of agricultural change and the varied pattern that it presents over the country as a whole. The earliest books on farming techniques had appeared in the early sixteenth century and enclosure had started in the thirteenth century, accelerating in the sixteenth century.

The results of new techniques

Whether or not the phrase "agricultural revolution" is an exaggeration, changes in British agriculture between, say, 1700 and 1870, were real and substantial. Greatly improved output, new crops, and improved techniques were matched by a number of important social developments.

Many of the changes in agricultural practice

made wider use of established ideas. The use of rotation of crops, for example, particularly the utilization of root crops such as the turnip as a part of the rotation and a source of winter feed for animals, was known in the seventeenth century. Selective breeding of livestock was familiar to earlier generations but was impracticable under the open field system of agriculture where animals were herded together in the common field.

Agricultural historians have identified the hundred years before 1750 as one of slack demand for farm products because of an upward trend in harvests and a largely static population. From 1750 onward, however, a discernible rise in population and generally poorer harvests provided a stimulus to investment in agriculture and the application of fresh techniques in order to increase production. A number of pioneers, such as Jethro Tull (1674-1741), Charles "Turnip" Townshend (1674-1738), and Robert Bakewell (1725-95) popularized the new techniques. Probably the most important of these were the use of crop rotation, scientific breeding of animals, and the use of crops such

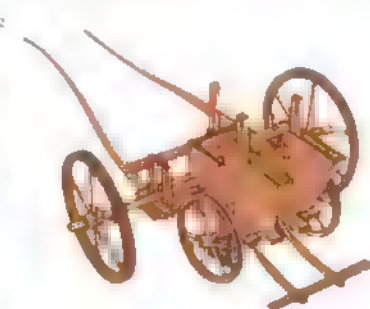
as turnips and lucerne as animal fodder. These improved yields led to heavier and healthier animals - within the century the average weight of sheep sold in London nearly trebled and permitted the wintering of livestock on stored feed. New implements such as improved ploughs [7] and harrows, as well as Tull's revolutionary seed drill, contributed to the improvement of yields [2].

The effects of enclosure

Many of these techniques could not have been applied without reorganization of land-holding. Enclosure of land [Key, 4] into self-contained units had been going on for centuries, more than one-third of England was enclosed by 1600, usually by agreement among local landowners. From the mid-eighteenth century, much land was enclosed through private Acts of Parliament. Enclosure involved creating separate holdings out of the medieval common and "open" fields. Generally it eliminated the inefficiency of farming strips in each field and the wasteful system of leaving one field fallow each year, and it also permitted farmers to experiment

CONNECTIONS

See also



**A DISCOURS
OF
HUSBANDRIE
USED IN
Brabant and Flanders:
SHOWING
The wonderful improvement of Land there;
and serving as a pattern for our
practice in this
COMMON-WEALTH.**

The Second Edition, Corrected and Enlarged.



LONDON,
Printed by William De Cord, dwelling in Sefton-lane,
near London-Road, (under Dow, 1631)

1 Agricultural manuals and tracts helped to spread the use of new techniques among farmers from as early as the 16th century. During the late 18th century agricultural improvement became a fashionable concern. King George III (r. 1760-1820) himself ran a model farm at Windsor.

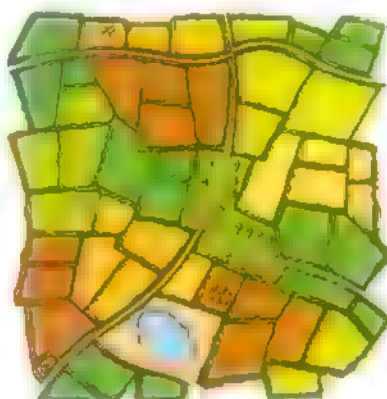
2 Jethro Tull's famous horse-drawn seed drill, first used in 1701, is regarded as having initiated the mechanization of agriculture. Before this invention seed was laboriously broadcast by hand, which was a wasteful and uncertain procedure.

3 Richard Weston's (1591-1652) *A Discours of the Husbandrie used in Brabant and Flanders* (1645) spread Flemish agricultural ideas among English farmers. It described methods of crop rotation and several techniques by which poor soils were improved.



4 The effects of enclosure upon land-holding can be seen from the plans of a typical parish. Before enclosure, many villages preserved the medieval layout of large open fields in which each inhabitant held by custom a few strips. The intention

was to give everybody a share of good and bad land. But this meant that the land between each strip was wasted and involved unnecessary journeys between different fields. It was impossible to experiment with new techniques and most



people used a simple system of rotation that left one field fallow for a year. Enclosure consolidated holdings and permitted improved agriculture. The progressive farmers supported it, and those with large holdings often provided in-

centives in order to obtain better tenants at greater rents. After enclosure all the land was divided up, and hedges were usually planted to mark the new field boundaries, in this way creating what is now the familiar English landscape.



5 The Game Laws restricted the taking of game to men of property. In 1671 freeholders with less than £100 worth of property and leaseholders with less than £150 were prohibited from taking deer, hares, rabbits, pheasants or partridges. As enclosure progressed, the areas in which also-holders and small holders could legitimately take game were still further reduced. Harsher game laws were introduced, including imprisonment, transportation and even death in the case of resistance to gamekeepers. Mantraps (such as the one shown) and spring guns were used to deter poachers, and gamekeepers were given wide powers. But the 19th century saw a relaxation of these laws.

with new techniques on a consolidated holding. Nearly 3,000 enclosure acts were passed between 1751 and 1810, the largest number being passed during the Napoleonic Wars (1803-15) when, due to trade dislocation, food prices were at their highest [10]

Poverty and prosperity

The enclosures of this period were once believed to have contributed to the pauperization of the agricultural labourer by depriving him of his rights of grazing on the common and rendering his smallholding uneconomic. This view has now changed. Many smallholders remained and the number of families working on the land actually rose between 1750 and 1831. Migration did take place from the land, and many smallholders were pushed into the ranks of wage labourers, but this was more the effect of population growth than of enclosure. Pauperization of the agricultural labourer arose from chronic rural unemployment and concomitantly depressed wage levels.

On the other hand, owners of large farms tended to prosper. The landed classes of the

eighteenth century had ample wealth for housebuilding, the creation of rich collections, and foreign travel. The wealthier of their tenants and professional farmers were also able to build substantial farmhouses. That tireless observer of rural life, William Cobbett (1762-1835), among others, noticed that the social status of farmers had greatly improved by the 1820s, but that it had the effect of making them more distant from their employees. Much contemporary comment satirized the social pretensions of farmers and their families in the early nineteenth century. But it took several decades for the typical pattern of Victorian rural society - which was that of large landowners, tenant farmers, and landless labourers - to emerge.

Expansion of the cultivatable acreage and improved yields provided the food for a growing urban population. Precise production figures are not available, but Britain's ability to feed itself despite the virtual trebling of its population between 1750 and 1850 was not the least remarkable feature of the development of its economy.



Enclosure was generally completed with little serious disagreement. To obtain an Act of Parliament took time and required the

agreement of many of the local landowners. The land also had to be accurately surveyed and the appropriate legal titles

established. The allocation of land was usually fair. Each enclosure act appointed commissioners to distribute the land



6 The "Pangborn Hog" was a gigantic prize pig reared on Tidmarsh Farm in Berkshire as a result of systematically controlled and scientific breeding. There were also new strains of other animals by selective breeding. Among the farmers who popularized new breeds of sheep was Robert Bakewell of Dishley, Leicestershire. He was so successful that he managed to double the amount of meat obtainable from each of his sheep.

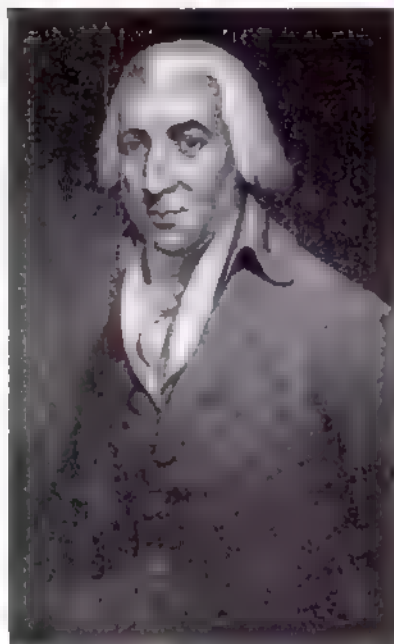


7 Agricultural improvements owed little to new machinery apart from Tull's seed drill. But many small improvements were carried out on existing implements. An improved plough

with a metal blade, for example, was produced in 1703 and wooden ploughs were gradually superseded. The Rotherham plough shown here included a metal blade and appeared in 1730.

8 Arthur Young (1741-1820) was a famous propagandist for the techniques of agricultural improvement in Britain. In his books and articles he argued that large-scale farming, using enclos-

ure, the latest techniques and plentiful capital would greatly increase production. His writings provide historians with a rich source of information about the social, political and economic life of the 18th century.



9 Holkham Gatherings was the name given to a series of agricultural shows organized by Thomas Coke (1752-1842) of Holkham in Norfolk. Coke was a pioneer of agricultural improvement and like many others, he was a propagandist for the new methods. He experimented with root crops, especially the swede, helped to improve breeds of cattle, sheep and pigs, and was the first to grow wheat instead of rye in western Norfolk.

10 Agricultural output increased during the 18th century as new methods of farming were introduced. Rapid population growth stimulated demand at home and exports also increased. Here the average annual export of corn is shown for each ten-year period. Domestic prices reached a peak at the time of the Napoleonic Wars but fell slightly after 1815. The protective Corn Laws kept prices up, but even when these were repealed, in 1846, farming remained prosperous.



The Enlightenment

The seventeenth century saw the emergence of a belief among European philosophers and writers that the truth about the nature of man and his world could be discovered by the use of reason. In the search for truth in the sciences, the *Discours de la Methode* (1637) by René Descartes (1596–1650) led to a more sceptical approach to astrology and history. At the same time, critical interpretation of the Scriptures and an interest in comparative religion brought about a weakening of religious orthodoxy.

In England, the execution of Charles I discredited belief in the divine right of kings and the revolution of 1688 established a liberal constitution that served as an ideal in continental Europe for a century. This shift in opinion and attitude was given the name of Enlightenment (*Les Lumières* in French, *Aufklärung* in German).

Scope of the movement

The Enlightenment was a literary and philosophical movement against superstition, ignorance, traditional knowledge and accepted wisdom. Politically it ran from John

Locke (1632–1704) to the French Revolution a century later. Lessing (1729–81) and Goethe (1749–1832) were its representatives in Germany, Franklin [3] and Jefferson (1743–1826) in America and Algarotti (1712–64), Alfieri (1749–1803) and Beccaria (1738–94) in Italy. It was little known in Spain and Eastern European countries, but attempts at Westernizing Russia under Peter the Great (1672–1725) and Catherine II (1729–96) owed their inspiration to the French and German Enlightenments.

Scientific and literary inquiry

Although this movement did not give rise to any particular school, its leaders shared a spirit of scientific inquiry, an acceptance of Newtonian physics in the idea that the universe was regulated by discoverable laws, a belief that knowledge should be widened so that all men could exercise their God-given gift of reason and a wish to combat the errors of antiquity that led to superstition and had become the pretext for persecution [4].

Literature centred on humane contemporary topics. There was a tendency towards

cosmopolitanism and the use of non-European settings, as in Defoe's *Robinson Crusoe* [6] and Montesquieu's *Lettres persanes* (1721). Satire, whether in verse or prose, became the main genre and vehicle for criticism, bringing with it a strong plea for toleration and liberty of conscience.

In religion, the scientific spirit of the age was reflected in a denial of miracles and revelation and also an abhorrence of "enthusiasm". Enlightened writers (the *philosophes*), while not usually aesthetic considered on humanitarian grounds that it was absurd to foist one's religion on another individual or nation, differences of creed were seen by Voltaire in *Zaire* (1732) and Lessing in *Nathan der Weise* (1779) as mere accidents of birth and education. Accounts of voyages turned interest towards the common denominator of all religions – a belief in a God that could serve as a rational hypothesis to account for existence. As a result there arose the concept of an honest pagan and of deism which held that, having created a workable universe, God left it running rather in the manner of a clock, which Alexander Pope [2]

CONNECTIONS

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17th century
18th century
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23rd century
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27th century
28th century
29th century
30th century



1 *De rerum natura* by Lucretius (c. 99–55 BC) was a popular text for Enlightenment writers. Lucretius had attacked religion and favoured rational explanation to combat superstitious fears of natural disasters such as volcanoes, earthquakes or plague (depicted here in a 1725 edition of the work).

2 Alexander Pope (1688–1744), although primarily a satirical poet, was best known in Europe for his *Essay on Man* and *The Universal Prayer*. They summarized what his contemporaries felt about the inflated theories of metaphysics and the possibility of a form of deism that would be universally acceptable.



3 Benjamin Franklin (1706–90) – depicted here in an allegory – was an intellectual all rounder embodying the very spirit of the Enlightenment. He was an artisan, apprentice, journalist,

author, founder of a philosophical society and later of an academy that acquired university status, experimental scientist, traveller and statesman of international repute.



4 The Massacre of St Bartholomew's Day was held up by Voltaire (1694–1778) in *La Henriade* as an abhorrent example of religious fanaticism. This epic, secretly published in 1723, praised Henri IV for being an enlightened king and granting the

Edict of Nantes. This religious tolerance had been gradually eroded and the edict was revoked in 1685. The flight of French refugees to Holland, Britain and the German states was an important facet of internationalism in the Enlightenment.

5 Göttingen University was founded in 1737 by the Elector of Hanover, George II of England. The aula is a notable example of 18th-century civic architecture. Academic expansion was one of the practical effects of the Enlightenment.

expounded in his popular *Essay on Man* (1733) Rousseau (1712-78) [7] expounded in *Emile* (1762) a more emotive form of deism while there were others who became overtly atheistic

The *Encyclopédie* [Key] of Diderot (1713-84) and d'Alembert (1717-83) embodied the central idea of the Enlightenment that knowledge is power. A final monument to human endeavour before the days of specialization, this massive encyclopaedia concentrated attention largely on the skill of the artisan at a time when literature too was dealing more and more with common people, the trader and merchant. Jeremy Bentham's Utilitarian plea for "the greatest happiness of the greatest number" was an offshoot of this interest while the Physiocratic movement in France and Adam Smith's *Wealth of Nations* (1776) also typify the Enlightenment in seeking rational solutions to economic problems. Their plea for commercial liberty (*laissez-faire*) is the counterpart of the philosophers' plea for liberty of conscience

Socio-political problems provided the most obvious targets for satire, frequently in

the form of imaginary journeys, as in Swift's *Gulliver's Travels* (1726). Serious historical writing of the period again shows the desire to reject accepted judgments and to replace them with the kind of critical appraisal of original material undertaken by Bayle and Montesquieu in France, Hume and Gibbon in Britain and Alfieri in Italy

The arts and politics

In the arts, there was a trend away from emotion towards order and disciplined form. Civic architecture such as the New Town, Edinburgh, the theatre at Bordeaux or the aula (great hall) at Göttingen University [5] clearly embodied Enlightenment ideals. Diderot's *Salons* (1759-79) and Lessing's *Laokoon* (1766) exemplified the new importance given to criticism of the arts

To ascribe the French Revolution to the direct influence of the Enlightenment is an oversimplification - the leaders of the Enlightenment [8] were optimistic reformers not revolutionaries, opposing all forms of dogmatism and believing in gradual progress towards a better world

KEY



The *Encyclopédie* published between 1751 and 1772 had this frontispiece by C. N. Cochin so d as a separate item. It captures the semi-poetic, almost religious fervour with which the *philosophes* pursued enlightenment. In the background the obscurity of Antiqity is ruptured by a burst of light. Reason appears emblazoned in the centre, at her feet the Sciences and Useful Arts bring their tribute. Nor are the Fine Arts forgotten: in the left foreground silversmiths and goldsmiths bring a luxurious contribution of elegantly wrought plate. The emotive quality is reminiscent of rococo church decoration



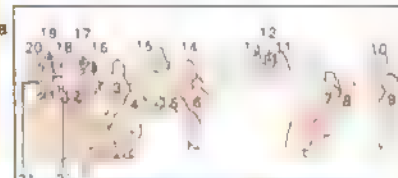
6 *Robinson Crusoe*, a work of fiction by Daniel Defoe (1660-1731) based on a real episode and published in 1719, reveals the 18th-century love of discovery. Its high minded moral tone, and its attention to the 'honest savage' mark it as one of the foremost novels of the Enlightenment

7 The French Revolution claimed Jean Jacques Rousseau as its spiritual progenitor, although his major work *The Social Contract* (1762) was widely read only after 1789. This pictorial allegory shows Rousseau presiding over the eye of truth above the tree of liberty and other symbols of the revolution



8 *Madame Geoffrin's salon* [A, 8] brought together in Paris during the mid-1700s many of the artists and *philosophes* of the time, together with such distinguished visitors as Gibbon, Hume and Horace Walpole. Marie Thérèse Geoffrin (1699-1777) who appears [7] in the painting was a wealthy bourgeoisie and patroness of men of letters. Le Kain [4] addresses a group that includes Buffon [11] Mlle de Lespinasse [2], Mlle Clairon [3]

D'Alembert [5], Helvetius [6], Fontenelle [8], Montesquieu [9] Mairan [10], Turgot [11], Diderot [12], Quesnay [13], Saint-Lambert [14], Rousseau [15], Raynal [17], Thomas [18], Marmontel [19], Marivaux [20], Condillac [21] and Réaumur [22]. Presiding over the assembly is a bust of Voltaire [15], who, in a letter to M Lefebvre in 1732 expressed the opinion that such salons fostered a spirit of coherency



The English in Ireland

At the end of the Middle Ages Ireland remained a partially conquered country in which opposed cultures coexisted uneasily. English influence was confined to the organized counties around Dublin. Beyond that Pale were some 90 independent lordships, two-thirds of them ruled by Gaelic dynasties, the rest by Gaelicized Anglo-Norman lords. The only significant governmental function was justice, and this was entrusted to the FitzGeralds of Kildare.

The Reformation and anglicization

The weakness of the state was of merely local importance until the Reformation, by altering England's relations with Europe, gave Ireland a new strategic significance. After 1534, an attempt was made to improve international security by extending English control in Ireland. Direct rule was introduced on the basis of imported governors, civil servants [1] and armies, but experience soon revealed that control could not rest on military conquest alone and there followed a programme of anglicization.

Both Gaelic and Anglo-Norman lords

resisted encroachments on their autonomy, and the situation was complicated by the tenacity with which both natives and settlers adhered to their Catholicism.

The conquest was poorly financed, piecemeal and protracted. It was brought to completion only when the outbreak of war between England and Catholic Spain made Ireland a strategic liability. In the Nine Years War (1595-1603), an Ulster-based confederacy of Gaelic lords led by Hugh O'Neill (c. 1540-1616) was defeated, and the incoming James I (reigned 1603-25) became the first English king to rule all Ireland. Thereafter, anglicization proceeded quickly.

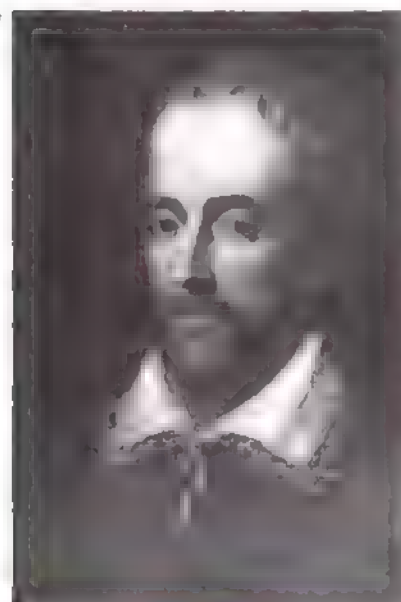
The self exile of the defeated northern leaders made possible the systematic "plantation" of Ulster with English and Scots settlers [4, 7]. The discriminatory enforcement of English property law allowed a widespread public and private expropriation of the Irish to take place elsewhere. A sizeable group of immigrant Protestant landowners gradually developed. Their estates, contested by the older Catholic colonists

who vowed loyalty to the Crown and sought guarantees of their property rights but were rebuffed in the 1630s when Lord Deputy Wentworth (1593-1641), later the Earl of Strafford [5], confiscated a proportion of their land to further a colonizing scheme he was promoting in Connaught.

Protestant conquest

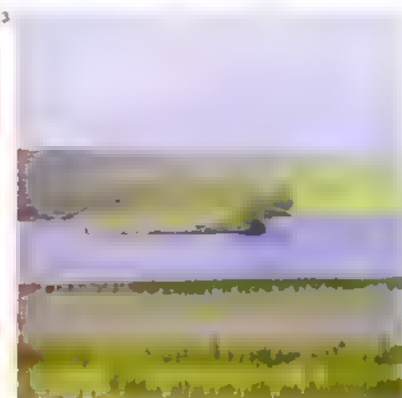
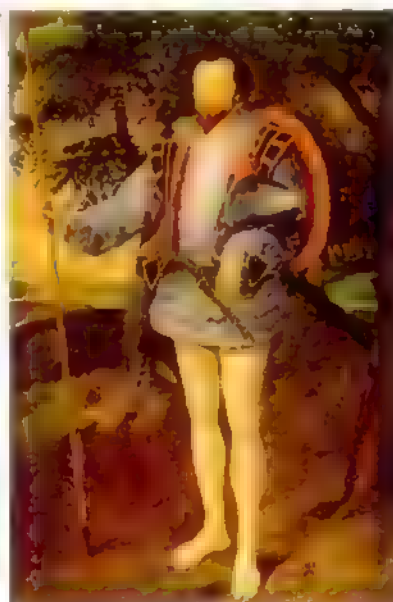
When the Ulster Irish rose in rebellion in 1641, the Catholic colonists joined them. Both were united in fearing that the growing influence of the English Parliament and the Scots would overturn the practical toleration of Catholicism in Ireland. There was little unity of purpose, because the colonists, who possessed one-third of Ireland, had much to lose, while the Irish, joined by returning exiles from Europe, had much to gain. The English Civil Wars created disabling divisions on the English side, but after Charles I (reigned 1625-49) had been executed Oliver Cromwell (1599-1658) conquered Ireland easily and ruthlessly [6]. A vast expropriation followed, in which no distinction was made between the Gaelic Irish and the

CONNECTIONS



1 Edmund Spenser (1552-99) served as a minor official in Ireland and acquired plantation lands in County Cork where he wrote much of *The Faerie Queene*. His grandson was later knighted an Irish peer by the Cromwellians, deprived of his title and transported to Connaught with many other Catholics.

2 Thomas Lee (d. 1601) here portrayed as an Irish knight dressed for bogland terrain, was one of the many English adventurers who sought the fortune of 16th-century Ireland. Others included Richard Grenville (c. 1542-91), Humphrey Gilbert (c. 1539-83) and Walter Raleigh (c. 1552-1618).



3 Crannogs, artificial islands of brushwood, peat logs and stones, sometimes surrounded by a timber palisade, most probably from the early Bronze Age, although Neolithic remains have

been found in some. They provided a secure home for the more important families in low-lying and marshy areas. Some were still inhabited in Ulster during the 16th century.



4 The village in the plantation area was not only a unit of defence, but a symbol of civilization in contrast to the native, as this contemporary map detail shows: they were composed of neat timber-framed houses and cottages that contrasted sharply with the native, high settlements in which wall and turf houses clustered together.

5 The independence of the Lord, butler and the Earl of Strafford posed a threat to the power of the English and Scottish parliaments when they joined forces against the Crown in 1640. He was charged with treason, the Irish Parliament readily attested to his misgovernment and the discontents of three kingdoms converged to



Catholic colonial community. This was not accompanied by systematic settlement now ever, and existing Protestant settlers benefited largely.

When Charles II (reigned 1660-85) was restored in 1660 his dependence upon Protestant support ensured that only token modifications of this arrangement were possible. But the fact that his brother and heir James II (reigned 1685-8), was a Catholic gave hope of redress, and Catholics in Ireland rallied to James's support when he was deposed in 1688, while Protestants transferred their allegiance to William of Orange (reigned 1689-1702) [Key].

The Protestants were confirmed in their ownership of Irish land, and the government confirmed in its power to rule Ireland without reference to the interests of its Catholic population. Protestant supremacy was secured by a system of laws designed to depress Catholics, and particularly the remaining Catholic landholders, rather than to suppress Catholicism. Important changes within the Catholic community followed. As the population increased steadily, and land

lords responded to demand by letting their land in ever smaller units, settlers and natives gradually merged into a depressed peasantry. In the towns by contrast, where economic activity was less affected by penal constraints, a Catholic middle class desirous of its full rights slowly developed.

Union with England

The privileged society of Irish Protestants quickly acquired local interest and ambitions. No longer needing English support to uphold their position, they came to resent English control. Their claims for recognition of Ireland's legislative independence were conceded in 178.

Circumstances soon challenged the basis of Protestant ascendancy. Indeed, the growth of republican separatism produced an abortive rising in 1798 so that when the government proposed the political union of England and Ireland as the most secure alternative, Irish Protestants accepted the scheme as the best means of protecting their position in the future [10]. In 1800, the Irish Parliament voted itself out of existence.



The Battle of the Boyne between William III and James II in 1690 was fought for control of Ireland. The battle was a decisive victory for William III, and it established a Protestant domination that excluded the vast majority of English settlers from the colonial community and led them to assimilate with the Irish.

William III and James II fought the battle of the Boyne in 1690, but it incidentally decided the future of Ireland. William's victory established a Protestant domination that excluded the vast majority of English settlers from the colonial community and led them to assimilate with the Irish.

Protestant domination that excluded the vast majority of English settlers from the colonial community and led them to assimilate with the Irish.

6 When Cromwell landed in Ireland in 1649 his purpose was not only conquest but also revenge for the reputed massacre of Protestants in 1641. This vengeance was exacted on the town of Drogheda (shown here, although its destruction was English its garrison was Royalist and the townspeople had played no part in the rebellion of 1641). The inhumanity of Cromwell's campaign remains impressionistic.



8 The impressive classical facade of the Custom House in Dublin symbolizes the prosperity of the privileged in the late 18th century and suggests the extravagance of their lifestyle.

9 Edmund Burke (1729-97) the statesman and philosopher, left Ireland a young man although his participation in the Champ d'Élysée of the interests of the American colonies was followed by an enthusiasm for the revolution.



7 The character of settlement varied widely. In all planted areas settlers were interspersed among natives, but in Ulster particularly in the official Scottish-based northeastern settlements they were a fair reflection of society. In the western areas, where they were grossly under-represented, in unplanted areas land ownership changed radically. In 1641 Catholics held 59 per cent of Irish land; by 1703 their share had fallen to 14 per cent.



10 By the Act of Union, the Irish Parliament exchanged its recently won independence for a Westminster House of Commons. Its power was believed to have been procured by bribery in fact Irish Protestants at least have to surrender their power to a practical England of their own accord. Despite Protestant dissent from within England, the English government regarded the union as a necessary step.

Irish culture to 1850

Early Celtic art has been described as "the first great contribution by the barbarians to European art". The swirling curves of this so-called La Tène style created by the Celts reached Ireland centuries before Christianity, and are found on metalwork and on such stone sculpture as the Turue Stone [1]

Early Christian art

This Celtic La Tène style, influenced by Germanic animal ornament and interlacing from the eastern Mediterranean, formed the basic elements of decoration used on objects of Christian metalwork from the golden age of early Christian Ireland (about AD 700). The best examples include the Ardagh chalice [3] and the Tara brooch. For many centuries the monasteries remained the main inspiration and sanctuary of culture, producing beautiful illuminated manuscripts. The *Cathach*, of about 600, is the earliest surviving Irish manuscript. By the mid-seventh century, these became more elaborate, as exemplified by manuscripts such as the *Book of Durrow* [2], and they reached their greatest intricacy with works

such as the *Book of Kells*, dated about 800 and regarded as one of the world's most beautiful books. On the margins of their manuscripts, Irish monks wrote lyric poetry in the vernacular of remarkable quality.

The remains of these monasteries, which are still visible, include small stone churches and oratories (such as that at Gallarus [4]), round towers and high crosses. These majestic stone crosses, dating largely from the eighth and ninth centuries, often depict scenes from the Old and New Testaments, serving as open-air picture Bibles. One of the finest crosses is that erected by Muiredach at Monasterboice [Key].

From 1000 to 1660

Although the Viking invasions of the ninth and tenth centuries may have somewhat stunted artistic development in Ireland, the eleventh and twelfth centuries saw a lively cultural revival. In architecture, Romanesque churches include a cathedral at Clonfert [5] and Cormac's Chapel at Cashel, showing an admixture of continental and Norman styles suffused by Scandinavian-inspired ani-

mal ornament. Although the manuscripts of that period failed to match the intricacy of the *Book of Kells*, items of metalwork such as the Cross of Cong are reminiscent of the golden age of the Ardagh chalice, while introducing Romanesque and animal ornament as well. Stone high crosses with figures of Christ and bishops or abbots in high relief were carved in the west of Ireland.

The advent of new religious orders such as the Cistercians from 1140 onwards introduced new monasteries in the Gothic style. The Normans, after their arrival in 1169, built fine Gothic cathedrals at Dublin and Kilkenny, and erected strong castles such as Carrickfergus and Trim to defend the lands they had conquered.

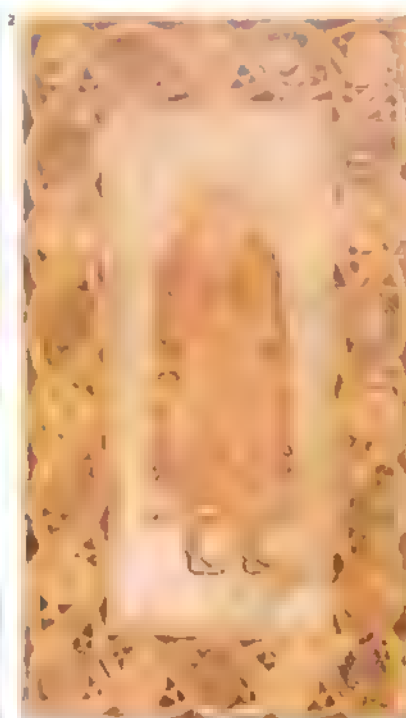
But after 1350, Gaelic culture reasserted itself after the effects of the Norman invasion, and with men such as Gofraidh Fiann O'Dálaigh a vigorous tradition of bardic poetry was created that continued uninterrupted down to the eighteenth century. Typically Irish Franciscan friaries sprang up in the fifteenth century at a time when many older churches were refurbished, and

CONNECTIONS

See also

Irish art
Irish architecture
Irish literature

1 The Turue Stone is the finest example in Ireland of a decorated Celtic ritual stone, the original purpose of which is unknown. The top part of the stone is ornamented with tendrils and triskelions (a device showing three branches, arms or legs radiating from a common centre). The decoration is executed in an art style that was developed by the Celts on the European mainland about the 4th century BC, reaching Ireland soon after 400 BC.



2 The Book of Durrow (c. AD 650–700) is the earliest of the great illuminated manuscripts to have survived in Ireland. Full-page decorations of Celtic motifs were innovative, and the human figure, such as that of St Matthew (seen here), show borrowings from enamel painting techniques.

3 The Ardagh chalice was made about AD 700, the golden age of metalwork in Ireland, and is one of its most splendid products. It has 354 separate parts. The body is made of silver and is profusely decorated with gold panels. It was found by a boy at Ardagh, Co. Limerick, in 1868.



4 Stone oratories such as this one at Gallarus, Co. Kerry, were used for prayer by the monks of some of the smaller Celtic monasteries on the west coast of Ireland from about the 8th to the 12th centuries. The walls are not vertical but slope inwards until they meet at the roof ridge.

5 The doorway of Clonfert Cathedral, in Co. Galway, with its profuse decoration, is perhaps the finest expression of the Romanesque style of architecture and carving practised in Ireland in the 12th century. It stands on the site of a monastery founded by St Brendan in 558.

The great triangular pediment above the door displays 15 sculptured heads: Donkeys, dragons and horses' heads and grotesque masks carved in the sandstone give the doorway a semi-pagan feeling. The grey limestone frame to the door itself is probably a 15th-century addition.



6 Jonathan Swift was Dean of St Patrick's Cathedral from 1713 until his death in 1745. Much loved by the poor of Dublin whose cause he espoused, he is best known for his *Gulliver's Travels*. His anonymous *Drapier's Letters* (1724) brought English attention to Irish grievances.

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the Irish built tower-houses such as Dun Guare, which flourished into the seventeenth century. About 1400, much important historical and genealogical material was compiled, such as that in the *Book of Ballymore* and the *Book of Lecan*, the De Burgo genealogy of 1583, has in addition, finely illustrated pages. The Limerick mitre and crozier and the Ballylongford cross are fifteenth-century works of European standing.

Eighteenth-century cultural revival

The wars of the seventeenth century drained Ireland of much of its artistic vigour, but in the eighteenth century a lively culture was sponsored by the landed aristocracy. Large new public buildings such as Gandon's Custom House in Dublin, and splendid domestic structures such as Castletown House [11] and the Casino at Marino, were built in the classical style of the Georgian period. Dublin, with its town houses and squares, became an elegant capital and Ireland became famous for its silver glass [7, 8] and bookbinding.

From 1660 onwards, Ireland enjoyed a

lively theatrical life, encouraged by men such as George Farquhar (1678-1707) and Richard Brinsley Sheridan (1751-1816). Irish writers began to play an important role in English literature in the eighteenth century. Jonathan Swift's (1667-1745) *Gulliver's Travels* (1726) [6] and Oliver Goldsmith's (c. 1730-74) *The Deserted Village* [10] have both become classics of the English language. The visit of George Friedrich Handel (1685-1759) to Dublin where his *Messiah* was first performed in 1742 encouraged Dublin to become a great musical city for the rest of the century. John Field (1782-1837), the inventor of the nocturne, William Wallace (1813-65) of *Marianne* fame, and Michael Balfe (1808-70) well known to nineteenth-century music lovers for his *The Bohemian Girl*, are among Ireland's best-known composers. At the same time a lively interest was taken in traditional Irish music, encouraged by Carolan (1670-1738), the blind harpist. Irish tunes collected by Edward Bunting (1773-1843) and Thomas Moore (1779-1852) in *Irish Melodies* (1807-34) were widely influential.

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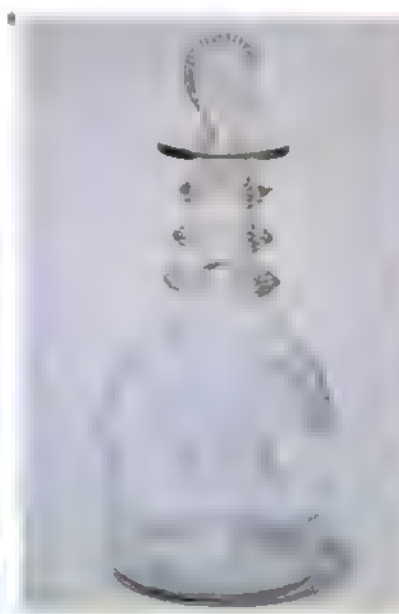


Muredach's Cross is a fine example of a Celtic high cross with its character of being possibly suggesting a halo of glory surrounding the intersection of arms and shaft. These standing crosses are among the most striking remains to be seen on many early Christian monastic sites. Most were carved in stone during the 8th, 9th and 10th centuries and some were intended as memorials to individuals. This cross, erected by Abbot Muredach at Monasterboice, Co. Louth, like many other late crosses of its kind, has its surface decorated with a selection of scenes from the Old and New Testaments. These probably helped to explain the Bible in pictorial form to those who could not read.

7 Sauce boats made in silver by Robert Calderwood of Dublin in 1737 are typical of the work of 18th-century Irish craftsmen who excelled in objects such as these designed for the tables of the rich. Easy

silverware was quite plain, but as the century progressed decoration became more intricate and profuse, graduating from rococo ways to the delicately proportioned classical style of Robert Adam.

8 This richly decorated wine decanter was made by Penrose in Waterford about 1795. It typifies the outstanding glassware produced there and in other Irish centres during the 18th and early 19th centuries.



9 George Berkeley (1685-1753) Bishop of Cloyne, Co. Cork, was Ireland's most renowned philosopher. His theory of vision and the foundations for later research on the subject, and his treatise 'The

Querist' (1735-7), he anticipated the essential theorems of David Hume (1711-76) and Adam Smith (1723-90). He believed in a existence of matter as substance but subscribed to the conventional laws of physics.

10 Oliver Goldsmith, poet, novelist and dramatist, was born in County Longford. He is one of the greatest Irish writers of the 18th century and is probably best known for his novel *The Vicar of Wakefield* (1766). Critics believe that some of his finest works, such as the play *She Stoops to Conquer* (1773) and his poem *The Deserted Village* (1770), embody scenes from his Irish childhood. He also wrote *A History of England* (1771). Goldsmith spent much of his life in London, where he tried unsuccessfully to practise medicine. The verdict of his friends was that he wrote like an angel and talked like a peasant. Though a did not debar him from Dr Johnson's literary circle, where he was always welcome.



11 Castletown House in Castletown, Co. Kildare, is a splendid 18th-century mansion built for himself by William Conolly. Speak of the rich House of Commons. The building was designed by the

Italian architect Alessandro Galilei. The tall central block joined to its lower wings by an open colonnade inspired the designs of many country houses throughout Ireland that followed. But the Georgian

style ebbed after the Act of Union united the English and Irish parliaments in 1801. Although Castletown House is an outstanding example, it was by no means unique. In the 18th century the

landed gentry amassed sufficient wealth to build splendid country seats for themselves. Among the finest architects working in the 18th century style were Edward and Richard Cassen.

Scotland in the 18th century

With the passing of the Act of Union in 1707, Scotland ceased to be an independent country and became part of Great Britain. Sixteen Scottish peers were elected to join the House of Lords (English membership 190) and 45 MPs sat in the House of Commons (English membership 513) at Westminster. Scottish MPs were notoriously pliant to the government's will at Westminster. The effective management of Scottish affairs in Parliament passed to government ministers – the Dukes of Argyll for much of the century and thereafter usually the Lord Advocates, of whom Henry Dundas (1742–1811) William Pitt the Younger's confidant, was the most famous and effective.

The Jacobite rebellions

Enemies of the Union were few and far between, except for the Jacobites who supported the exiled House of Stewart's claim to the throne. In 1715 the Earl of Mar (1675–1732), a former supporter of the Union whose political ambitions had been blocked, attempted to raise the country for James Edward, the Old Pretender

(1688–1766), James II's son. The rising won most support in the Highlands, but petered out after the inconclusive Battle of Sheriffmuir in November 1715 [1].

In 1744, the Young Pretender, Prince Charles Edward Stewart (1720–88) made a second attempt on the throne. In August he landed in Inverness-shire from a French ship and proclaimed his father King of Scotland and England. Even among the Highland clans, however, minority followed him and despite initial successes in which he took Edinburgh and defeated a Hanoverian army at Prestonpans, Charles was relying upon English Jacobite and French support when he marched on London in November [3]. The Jacobite army reached Derby and after some hesitation, in the face of mounting opposition forces under the Duke of Cumberland (1721–65), turned back northwards.

In April 1746, Cumberland caught up with Charles at Culloden [4] where the Jacobite army, outnumbered and poorly organized, was heavily defeated. The rebellion was finally crushed and Charles forced to flee back to France. The Union remained intact.

Even the Jacobites had primarily wanted to regain the British throne for the Stewarts rather than to re-establish Scottish independence. With their defeat there was no further challenge to Westminster government for nearly half a century, and in the aftermath of Culloden the power of the Highlanders was broken for ever.

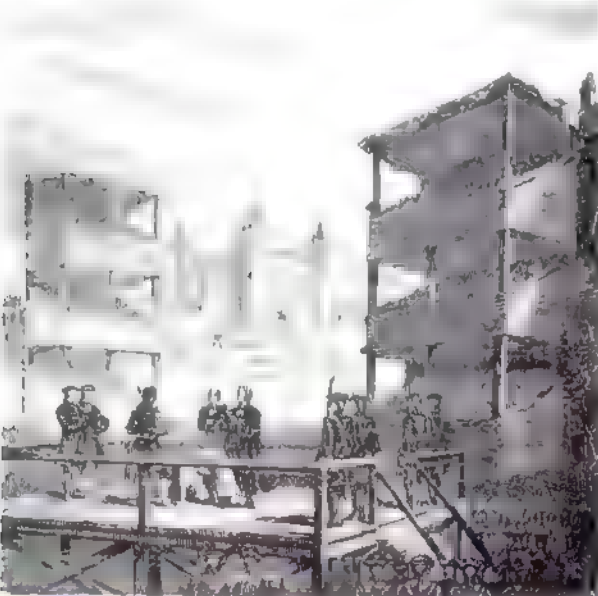
Economic consequences of the Union

The satisfaction that most Scots felt for the Union in the eighteenth century rested largely on an economic base and the new markets opened up by the Union with England. Although there was little dramatic change in the condition of the country until after 1760, even in the first half of the century food became more plentiful, the cattle trade with England expanded and linen emerged as the first major Scottish industry.

The tobacco trade too became an important source of prosperity to Glasgow and the west of Scotland when in the 1740s Scottish merchants secured bulk contracts to supply tobacco to France. The link forged with Virginia remained important until after

CONNECTIONS

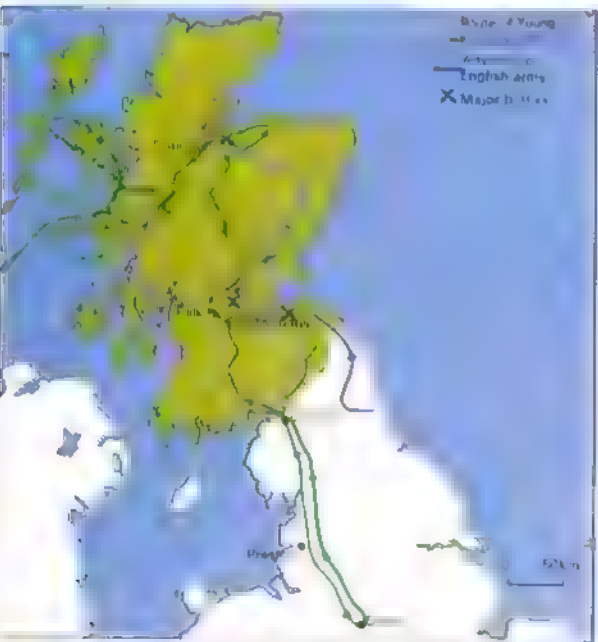
See also



1 After the Battle of Sheriffmuir the cause of the Jacobite rebellion was not lost. The rebels were told that the government would take Scotland too lightly to punish them severely enough under Scottish law. Here, one of the two versions of the coat of arms of the House of Stuart is shown.



2 Rioting broke out in Glasgow in 1725 following the decision by the Scottish Parliament to extend the tax on malt to the whole of Scotland. An angry mob attacked the house of the Lord of the Shire, who had supported the measure in Parliament. It was eventually put down by the government and the rioters were punished.



3 Prince Charles's march to Derby in 1745. He had gathered a small army of Jacobites and had reached Derby on 4 December 1745.

4 The bloody battle at Culloden, near Inverness, on 16 April 1746 was an overwhelming victory for the Hanoverian forces and effectively ended the Jacobite cause.

5 The aftermath of the battle of Culloden. Many of the Jacobite soldiers were killed or captured, and the remaining forces were dispersed.

the American Revolution (1775-83)

Towards the end of the century economic change became more rapid and far-reaching. In the Lowlands landowners and their tenants began enclosures, turnip husbandry and more intensive forms of farming both for animals and grain. By 1790 this had transformed the Lothians and was beginning to have an impact elsewhere. In the Highlands the 'crofting system' was introduced whereby tenants had smallholdings along the shore and spent part of their time fishing or gathering seaweed ('kelp') from which an industrial alkali was manufactured. Everywhere in the countryside population increased rapidly, many migrated to gain employment in the towns or settled round the new industries such as Carron Iron Works (founded 1759) or the cotton mills at New Lanark (founded 1785) [9].

The Scottish Enlightenment

During this period of economic prosperity Edinburgh flourished exceedingly. Its enterprising town council planned a New Town focused on Princes Street and George

Street; by 1800 this was attracting fashionable and middle-class families to its splendid homes in large numbers [Key]. The Scottish universities, especially Edinburgh and Glasgow, gained a worldwide reputation. Thinkers such as the philosopher David Hume (1711-76), economist Adam Smith (1723-90), the poet Robert Burns (1759-96), painters and architects such as Henry Raeburn (1756-1823) and Robert Adam (1728-92) and inventors such as James Watt (1736-1819), created 'Scottish Enlightenment' of learning and ingenuity without parallel in the past [6-8].

Not everyone, however, was convinced that the system was incapable of improvement. In the last decade of the century Scottish radical sympathizers with the French Revolution, especially the Friends of the People and the United Scotsmen began to make demands for a more democratic form of government [7]. Dundas and Pitt suppressed them as they had also suppressed English radical clubs, but in the nineteenth century the radicals' challenge proved more enduring than that of the Jacobites.



Charlotte Square

Edinburgh
the New Town
the 18th
the 18th

New Town
and prosperity of
the New Town
the 18th

New Town
the 18th
the 18th



5 The Royal Bank

of Scotland was founded in 1727, largely because the Bank of Scotland's directors were suspicious of Jacobinism. Even today it issues different notes.

6 The Encyclopædia

Britannica, compiled by James Millar, began in 1768. The Edinburgh edition was published in 1768. The first edition was published in 1768. The first edition was published in 1768.

local printer and the was named to provide a dictionary of the arts and sciences. The three volumes of the first edition were published in 1768. The first edition was published in 1768.

Encyclopædia Britannica;

DICTIONARY

ARTS and SCIENCES

COMPILED UPON A NEW PLAN

The different Volumes and Parts are digested into distinct Treatises or Systems.

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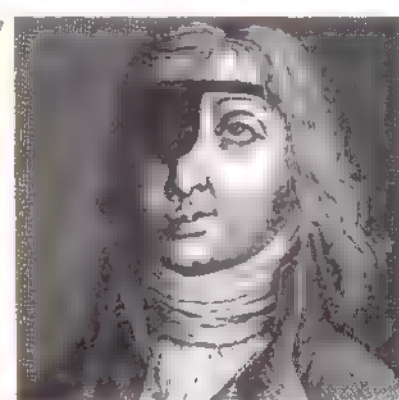
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7 Thomas Muir

1765-98. In 1791 he was arrested and sentenced to transportation to Botany Bay for 14 years.

Thomas Muir was a Scottish revolutionary and abolitionist. He was arrested in 1791 and sentenced to transportation to Botany Bay for 14 years.



8 The school system

in Scotland was the cornerstone of the great flowering of intellectual life in the late 18th century that was the Scottish Enlightenment. The ability to read and write was much more widely

spread than in England, and in many areas the rural parish school (supported by a tax levied on both landowners and tenants) educated both rich and poor. In the Highlands and towns however the parish system was inadequate

and was often supplemented by the wealthy with private tuition. The universities in the 18th century, in particular Edinburgh flourished and established an eminent tradition in law, medicine and philosophy.



9 The new technology

of James Watt's steam engine, 1769-1774. The first model was built in 1769. The first model was built in 1769.

James Watt's steam engine was a major technological advance. It was invented in 1769 and patented in 1781. It was a major technological advance.

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Scottish culture to 1850

The first flowering of Scottish art was Celtic in its forms. The Pictish stones of eastern Scotland [1] from the sixth to the ninth centuries are often enigmatic, with a fondness for displaying snouted monsters and mounted horsemen. More attractive is the almost contemporary art of Dalriada in western Scotland which is Irish in character, and is best represented by the beautiful "high crosses" of Ilay and Iona, by jewels such as the Hunterston brooch [2] and by the *Book of Kells* now in Trinity College, Dublin, which was probably illuminated by the monks of Iona around 800. The Celtic tradition went on in the Highlands through the Middle Ages, although it was gradually coarsened and weakened with time.

The development of Scottish architecture

Scottish medieval art survives today – largely in architecture – as Gothic ruins such as the cathedrals of Elgin and St Andrews or the Border abbays [3]. A grace and sweetness of line often compensates for the relatively modest scale of most of these buildings. From the earlier Anglo-Norman influences, castles

and mansions in Scotland in medieval times developed a distinctive national character, which often showed a strong French flavour. Fine medieval castle keeps remain at Borthwick, Bothwell and the Hermitage [4], each overwhelming in their impression of strength rather than comfort.

In the sixteenth and seventeenth centuries secular architecture mellowed. The new royal palaces of Stirling and Falkland showed French renaissance influence of a type unparalleled in England. The Scottish lords preferred to develop a "Scottish baronial" style untouched by classic models but graceful and picturesque with its emphasis on verticals and fantastic roof lines [5]. In the towns, whitewashed houses and crowstepped gables were in fashion.

After 1660 the classical architecture of southern Europe entered Scotland under the polished hand of Sir William Bruce (1630–1710) and his eighteenth-century successors, William Adam (died 1748) and Robert Adam (1728–92) [8]. The last named was the most famous architect Scotland ever produced: under his influence "the whole

world went Adamite", and his interpretation of Etruscan and Roman forms was copied from St Petersburg to Boston, Massachusetts. The eighteenth century was also the age of town and village planning – Edinburgh's gracious New Town is only the best known example of a movement that stretched from Inverary in Argyll to Cupar in Fife. By the early nineteenth century the romantic revival was producing a new kind of "Scottish baronial" country house inspired by the nostalgic writings of Sir Walter Scott (1771–1832), and his home, Abbotsford.

Early writers and the Enlightenment

In Scottish intellectual life the most important figures were of the eighteenth century, although Duns Scotus (c. 1265–1308) was an important scholastic philosopher, and in the sixteenth century a number of major figures emerged. The poetry of William Dunbar (c. 1460–c. 1520) and that of Gavin Douglas (c. 1474–1522) was part of a great flowering of Scottish culture. Other eminent scholars of this period include the theologian John Major (1469–1550), the Latinist and histo-

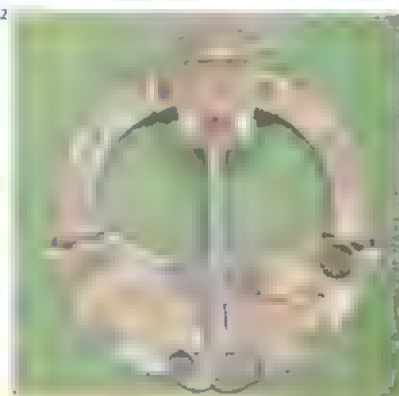
CONNECTIONS

See also

1000 Years of Scotland
The Scottish Gaelic language
The Scottish Gaelic language
The Scottish Gaelic language
The Scottish Gaelic language



1 This Pictish slab, with a cross on one side and a battle scene on the reverse, dates from the 8th century and stands at Aberlemno in Angus. Its zoomorphic designs are characteristic.



2 The Hunterston brooch is an outstanding example of Celtic craftsmanship of the 8th and 9th centuries. Wrought in silver gilt and set with amber, it resembles the Tara brooch in Dublin.



3 The Border abbays date mainly from the 12th century, but many were damaged in English raids and were substantially rebuilt in the 14th and 15th centuries. Indeed, so much of Scottish medieval

architecture lies in ruins that it is hard to form an impression of how fine it was. Melrose Abbey (shown here) was a Cistercian foundation under David I (1084–1153), who introduced many new monastic

orders to Scotland. The existing remains, of 1450–1505, show a strong French influence and include some fine late Gothic tracery. Among the other abbays, Kelso includes some unique late Norman work.



4 The formidable Hermitage, one of the most famed of the Border castles, dates mainly from the late 14th and early 15th centuries. The Hermitage illustrates the typically uncomely style of these fortresses. Only with the union of the crowns in 1603 did the Border castles fall into disuse and disrepair.

5 The Scottish baronial house of the 16th and 17th centuries is one of the most distinctive national contributions to architecture. Craigherris, shown here, is typical. Lightly fortified against raids – it has only one door and its windows were protected by grilles – it is nevertheless very graceful, culminating in fanciful turrets and pitched roofs.



rian George Buchanan (1506–82) [7] and the mathematician John Napier (1550–1617) who invented logarithms

The Scottish Enlightenment of the eighteenth century was primarily a philosophical movement associated with David Hume (1711–76), perhaps the most important and original philosopher ever to write in English. Other important figures were Adam Smith (1723–90), the philosopher and father of political economy, and Adam Ferguson (1723–1816) and John Millar (1735–1801), who laid the foundations of sociology. On the scientific and technical side outstanding contributions were made in the eighteenth century by Joseph Black (1728–99), who formulated a theory of latent heat, James Watt (1736–1819), of steam engine fame and Thomas Telford (1757–1834), the “Colossus of Roads” Edinburgh, the “Athens of the north”, proved a magnet for the philosophical and literary society of the age.

The literary achievement of eighteenth-century Scotland ranged from the work of diarist and biographer James Boswell (1740–95) to that of Robert Burns

(1759–96) [Key], whose poetry was the deliberate revival of a national tradition of writing in the vernacular that went back to late medieval poets such as William Dunbar. Burns’s lyrics also stood at the beginning of Romanticism, a movement advanced by the forged “translations” of epic Gaelic poetry by James Macpherson (1736–96) and by the novels of Sir Walter Scott [9].

Painting and a portrait

The same cultural upsurge can be seen rather less fruitfully in painting, where the classicism of Allan Ramsay (1713–84) and Henry Raeburn (1756–1823) degenerated into the anecdotal paintings of David Wilkie (1785–1841), which gained considerable popularity in the early nineteenth century.

The enormous vigour of the period 1740–1830 makes it a true golden age of Scottish culture. No better portrait of its closing years is possible than the lively diaries of Henry Cockburn (1779–1854), the Edinburgh lawyer and politician whose writings have again grown in popularity in the late twentieth century.



Robert Burns has a unique place in the hearts of all Scots, partly because he was what so many people would like to be – romantic, hard some, irresistible to women, and incapable of resisting them. The exceptional quality of his lyrics spring from the perfect match of words and tune: his love songs are moving without being cloying, passionate without being false. Burns is one of the few poets who can express happiness without making it sound more boring than misery. The other side to his genius was expressed in his great patriotism and personal radicalism in castigating hypocrisy and extolling the liberty and dignity of the common man.



6 The town of St Andrews boasts the first university in Scotland. It dates from 1410, when Bishop Wardlaw (c. 1370–1440) established the College of St Mary in the shadow of his cathedral. This

followed the Great Schism within the papacy (1378–1417) which divided the Church between two contending popes and divided Scotland and England between the candidates, cutting off Scottish echoes

from attendance at English universities. Thus, before the end of the 15th century two more colleges had been founded in Scotland – at Glasgow and Aberdeen. This 17th-century illustration shows

the town as it was in post-Reformation times. The cathedral, on the right, is in ruins after being attacked by Protestants in 1559. A defensive wall surrounds the burgh and unenclosed land lies beyond.



7 George Buchanan gained widespread renown as a Latin poet, historian and political philosopher in 16th-century Europe. He was condemned as a heretic following his attacks on the Franciscans and forced to flee to Bordeaux, where the French essayist Montaigne was one of his pupils. James VI of Scotland and I of England was also taught by Buchanan and spoke of his tutor as “a great master” of languages. Buchanan’s distaste of corruption and convention has left him with a mixed reputation, but he is generally regarded as a principal figure of the Scottish Reformation, especially because of his conflicts with the Church and the state.



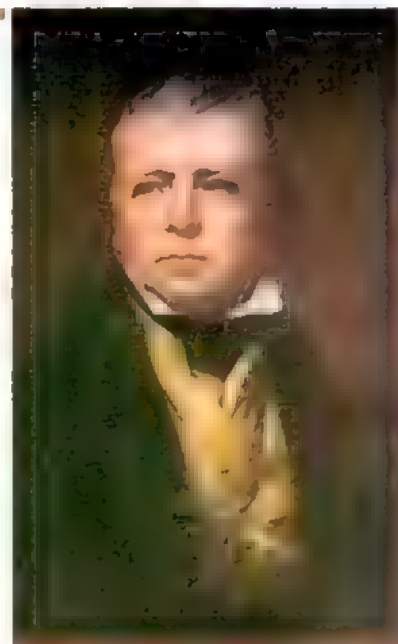
8 Robert Adam’s castellated style derives not from Scottish baronial models but from Italian ones for

example Culzean in Ayrshire, shown here built 1777–90, exploits with classical aplomb its splendid cliff-top site. The interior

has rich plaster work in the typical Roman and Etruscan style of Adam’s work. Among his most important works are

Osterley Park (1761–80) and Syon House (1762–9), near London and parts of Edinburgh New Town and University

9 Walter Scott did more than anyone to impress on the world the romantic image of Scotland. His many novels and poems reveal his intense love of the past which is saved from sentimentality by his narrative gifts. Throughout Europe, Scott was hailed as the leader of the new romantic attitude in the arts. Although his writings were immensely successful in particular *Waverley* (1814) and *The Heart of Midlothian* (1818). Scott spent much of his life writing desperately and in the teeth of painful illness, in order to pay off debts acquired by ill choice of publishing partners. His writing speed and prolific output were extraordinary especially in view of the undiminished quality of his later romances.



Exploration and science 1750–1850

The advances in exploration and science made in the eighteenth century were based upon the continued possession of a vast expansion of Europe in the years before 1750. Scientists and explorers were assimilating and extending the pioneer exploits of seventeenth century giants such as René Descartes (1596–1650) and Isaac Newton (1643–1727). Greater knowledge of the non-European world excited interest in its huge range of exotic flora and fauna and its geography, and questioned many accepted notions about the universe and its origins.

Growth of technical knowledge

In part the growth of knowledge depended upon technological improvements in navigation. Instruments such as the sextant and the marine chronometer, together with the expedition of Captain James Cook (1728–79) commanded three voyages of exploration between 1768 and 1771, and the precision his voyages depended on the new techniques. On his expeditions Cook visited large areas of the Pacific including New Zealand and added the islands of Tahiti

and Samoa to existing maps. He also contributed greatly to knowledge of the variety of the Pacific flora and fauna.

Scientific discovery also depended upon improvements in instrumentation. The use of a greatly improved telescope by William Herschel (1738–1822) led to the discovery of the planet Uranus in 1781. More sensitive balances contributed to chemical discoveries that displaced the phlogiston theory of combustion. In mathematics, trigonometry and calculus were greatly advanced by men such as Johann Bernoulli (1667–1748) and Joseph Fourier (1768–1830). The properties of heat were investigated by Joseph Black (1728–99) in Glasgow, who met James Watt, inventor of the first practical steam engine.

Impact of electricity and chemistry

Electricity was one of the principal fields of the physical sciences to be explored. Luigi Galvani (1737–1796) discovered galvanic current, electricity from Alessandro Volta, obtained it from his voltaic pile, and electricity was quickly made electrolysis possible.

In chemistry many natural elements were isolated for the first time. Joseph Priestley (1733–1804) is usually credited with the discovery of oxygen, while Antoine Lavoisier (1743–1794) is the basis for the modern treatment of chemical reactions. In botany the standard classification of plants was devised by the Swedish botanist Carolus Linnaeus (1707–1765), while the French naturalist Georges Buffon (1707–1788) in his *Histoire Naturelle* suggested that the earth had evolved from a far longer time than the six thousand years of biblical history. Other naturalists, including Charles Lyell (1797–1875) whose *Principles of Geology* (1830) emphasized the theory that the processes of geological change were very slow and uniform, and this was a factor in the remote past of the present. Modern species diversity and evolution and related subjects (Thomas Darwin (1809–1882) and Jean Baptiste Lamarck (1744–1829) were already proposing the theory of evolution, that is the descent of the present races of animals and plants from pre-existent, similar forms.

Many advances in the physical sciences

CONNECTIONS

Science

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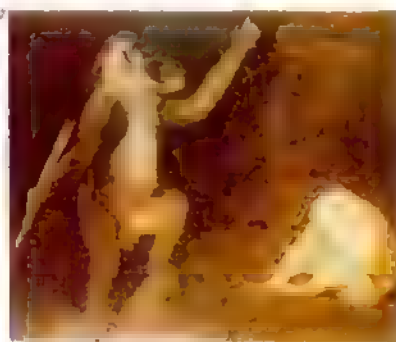
See page 100

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1 The marine chronometer developed by John Harrison (1693–1783) revolutionized sea navigation in the 18th century, allowing sailors to keep track of longitude. Harrison's invention made it possible for the first time to establish longitude within half a degree. Harrison's invention won him a government prize of £20,000.



2 The paintings of animals by George Stubbs (1724–1806) revealed a deep interest in and knowledge of anatomy. A friend of several natural scientists, he published a series of anatomical studies. Among them were reconstructions of animals from material brought by Joseph Banks from the Pacific. Stubbs painted this study for William Hamilton.



3 Carolus Linnaeus the Swedish biologist founded modern biological classification with his *Systema Naturae* published in 1735.

4 Alexander von Humboldt (1769–1859) made his name as a traveller to many parts of the world and as a geographer, natural historian, ethnographer and oceanographer. His main work was the multi-disciplinary *Kosmos* (1845–62) which attempted to synthesize all knowledge of the universe. He is shown here with his close companion the Frenchman Aimé Bonpland (1773–1858), right. He examined wildlife on Mount Chimborazo, the Andes and ascended to a record height in these mountains. At this time vast areas of the world were still unknown. Although the existence of all the continents was known by 1800, there remained large tracts of unexplored land beyond the frontiers of many of them. Settlement was steadily filling the gaps in the Americas but great areas of the Pacific and elsewhere remained untouched. Original accounts of Africa, South America and Arabia were also published during the 19th century.



were directly related to and stimulated by economic activity, trade and industrial processes. Physics played an important part in the rise of the new technologies upon which the Industrial Revolution was based, especially the harnessing of steam power.

The scientific investigations of the Enlightenment very quickly spilled over into other spheres that touched more directly upon politics. The rationalists of the eighteenth century who discovered laws underpinning the physical world were soon joined by writers and thinkers who saw similar laws in politics, thus the scientific movement also gave rise to the "laws of political economy." *Essay on Population* (1798) by Thomas Malthus (1766-1834) produced a mechanical and inevitable theory of demography, similar to that accepted by the classical economists Adam Smith (1723-90) and David Ricardo (1772-1823). The concept of immutable laws governing political behaviour was adopted by the utilitarian thinkers, such as Jeremy Bentham (1748-1832) and James Mill (1773-1836). Similarly the scientific movement extended

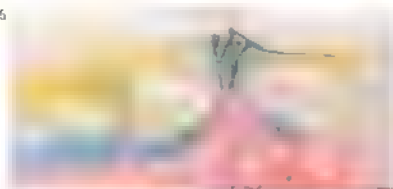
to the study of man and by the early nineteenth century produced the first works of sociology and comparative law.

Science and religion

Undoubtedly the most important effect of the scientific movement was its impact upon conventional religious beliefs. Clearly the account of the Creation contained in the Old Testament was not literally true and the world was older than the Bible suggested. Fossil evidence was clear proof of the existence of life on earth at hitherto unthinkable remote periods. Moreover, to some the evidence of geology and of fossils disproved the Old Testament idea of simultaneous creation of all living things. Although these ideas encountered intense hostility and were at first rejected, they provoked profound questioning about the place of revealed religion in the scientific age. *On the Origin of Species by Means of Natural Selection* (1859) by Charles Darwin (1809-82) [Key] defused an explosion of ideas that had been gradually accumulating during the late eighteenth and early nineteenth centuries.

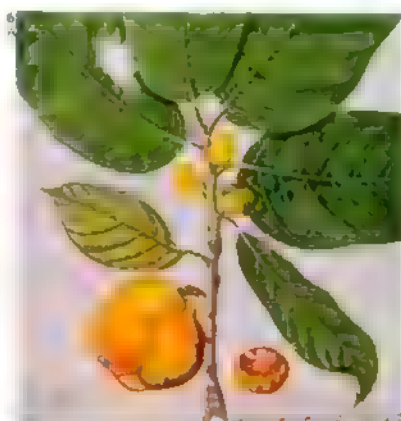


Lampooned as an ape, Charles Darwin attracted with other scientists of his time, the wrath of society when his discoveries and arguments undermined the traditional and biblical accounts of man's creation. The investigation of foreign cultures and the new scientific approach to the world of nature threw European institutions and conventional (though) into sharper focus and led to questions about their assumptions and legitimacy. As a result, Darwin and others who supported his theory were treated for some time with hostility by their contemporaries who held more orthodox opinions.

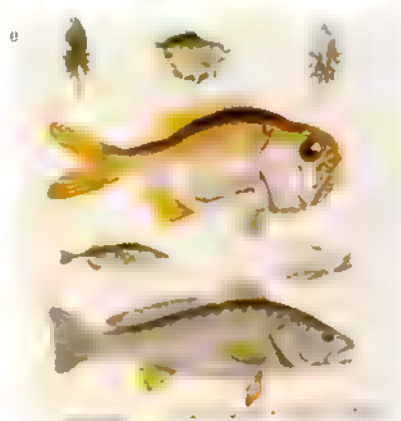


5 The foundations of modern geology were laid down in the 18th century with the study of rock strata and with attempts at geological dating. The frontispiece of Lyell's *Principles of Geology* (1830-33) is shown here. The work

formulated an evolutionary theory of the earth rejecting earlier writers who had tried, for theological reasons, to reconcile geological and fossil evidence with literal interpretations of the Old Testament.



6 Accurate observations of flora and fauna provided one of the most important vehicles of early scientific enquiry. Natural history attracted professional and amateur collectors and precisely illustrated studies proliferated. This illustration of *Phyllanthus niruri* (A) is from a collection called *Hindustan Plants*. The fish (B) formed part of a collection that appeared in a German publication by Sehnz (1836).



7 In the physical sciences one of the most important fields of development in the 18th century was electricity. Luigi Galvani (1737-98) of Bologna is seen here demonstrating in 1786 the effect of electrical impulses on a frog's nerves. Benjamin Franklin (1706-90), Volta (1745-1827), Ampère (1775-1836) and Ohm (1787-1854) also experimented with electricity.



8 The academic study of anatomy became accepted by the 18th century. Its teaching was much advanced by the work of Hermann Boerhaave (1668-1738) and John Hunter (1728-93) and his brother William (1718-83) seen here giving a lecture to the Royal Academy in London. It was not until the advances in chemistry and bacteriology of the 19th century that the causes of diseases were diagnosed accurately and aseptic and antiseptic procedures made surgery less risky.



9 The old wives' tale that dairy maids never caught smallpox led to an effective vaccine to the disease. Jenner's vaccination of the disease were used regularly killed or scarred great numbers of people, especially children and young persons. In many countries it had re-

placed the plague as a major check on population growth. However, virus was not among the poor in the 18th century but it was expensive and dangerous with high fatality rates. Infection Edward Jenner (1749-1823) examined the tradition a view saw that people who had caught the relatively harm-

less cowpox were immune from smallpox and was able to develop a vaccine that risked all effects and could be made widely available. Vaccination ramped up use in many European countries even after the development of vaccination but it was finally made illegal in Britain in 1840.

European literature in the 18th century

The rise of the novel in the eighteenth century appears paradoxical in that increasingly scientific age. However, the expanding and newly literate middle class with their "enlightened" attitudes learnt to accept first fiction disguised as fact, then the novel of character and predicament, followed by the picaresque romance, works of sentiment and sensibility, and finally, by the end of the century, the terrors of the Gothic novel

Early development of the novel

It was Daniel Defoe (1660–1731) who gave the English novel its vigorous start with *Robinson Crusoe* (1719), *Moll Flanders* (1722), *Colonel Jack* (1722) and *Roxana* (1724). He was a realistic narrator, suited to a credulous public, but the novel demanded the elements of social observation and conversational style that were being developed by Richard Steele and Joseph Addison [3], whose essays and sketches created lively characters and stressed the morality of a rational social order. The final step towards the true novel was the addition of a coherent plot to a prose narrative dealing

with the interplay of human relations. Samuel Richardson (1689–1761) effected this with *Pamela* [7], which in turn encouraged the corrective burlesque novels such as *Joseph Andrews* (1742) and *Tom Jones* (1749) by Henry Fielding (1707–54).

The comic masterpiece *Don Quixote* by Cervantes (1547–1616) probably had the most influence on the European novel. In France, Alain le Sage (1668–1747) published *Gil Blas* (1715–35), a romance of picaresque adventures, and his Scottish translator, Tobias Smollett (1721–71), was able to develop the novel of diverse characters and incidents – coarse, realistic and episodic. His novels – *Roderick Random* (1748), *Peregrine Pickle* (1751), *Humphrey Clinker* (1771) – all lack the subtlety and irony that mark Laurence Sterne's *Tristram Shandy* (1760–67) and *A Sentimental Journey* (1768). Sterne (1713–68) wrote a fluid, surreal fantasy that lies outside the mainstream development of the novel, but his success was immense and his imitators many, notably Denis Diderot (1713–84) in *Jacques Le Fataliste* (1796). A more central

novel, *The Vicar of Wakefield* (1766), is by Oliver Goldsmith (c. 1730–74), a delicate stylist who dealt largely with the trials of virtue and domesticity.

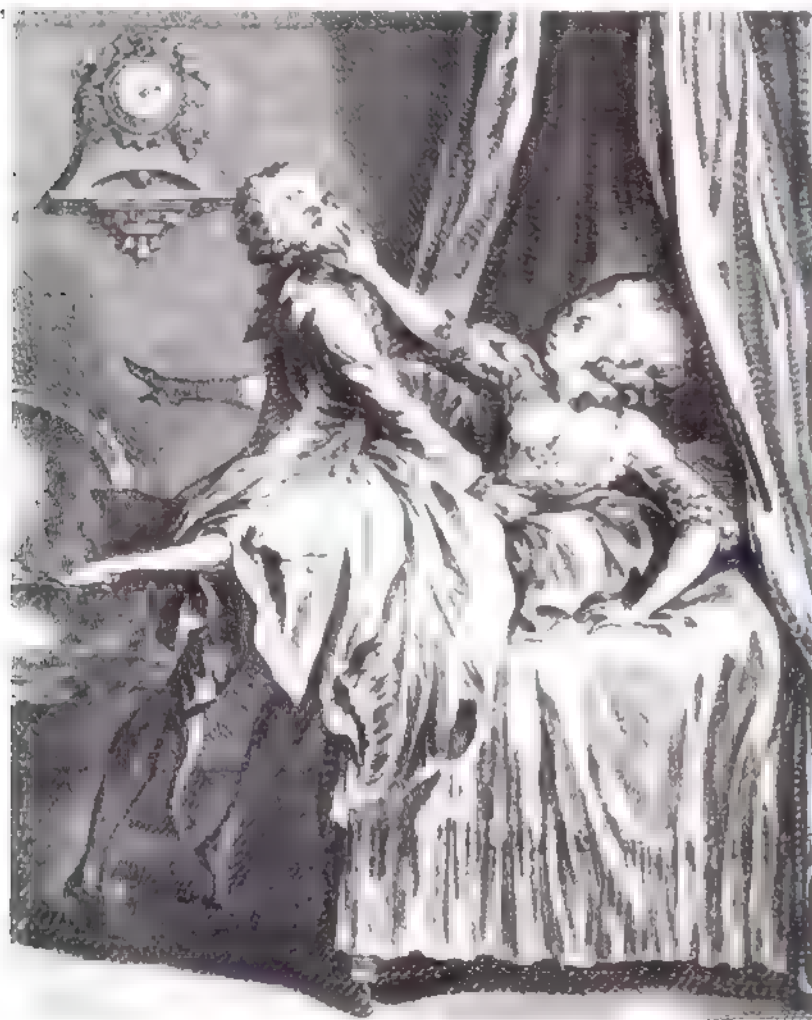
With Fanny Burney (1752–1840) and her *Evelina, or, the History of a Young Lady's Entrance into the World* (1778), a new sensibility was added to the theme of a young girl's adaptation to society.

The change in the novel after 1760

At this point the novel, which had seen occasional outbursts of fancy and imagination such as Horace Walpole's *The Castle of Otranto* (1764) or Niels Klun (1741), a Gulliver-like satire by the Dane Ludvig Holberg (1684–1754), turned almost entirely to Gothic sentimentalism and terror. Matthew Lewis's (1775–1818) *The Monk* (1796) and Mrs Radcliffe's *The Mysteries of Udolpho* (1794) were widely acclaimed, and they unleashed both fine novels and a flood of indifferent fiction. In the last decade of the eighteenth century, however, Jane Austen (1775–1817) began writing *Sense and Sensibility* and a series of other novels whose

CONNECTIONS

See also



1 The nocturnal wanderings of Nicolas Restif (1734–1806) among the low life of Paris produced a vast output of moranizing multi-volumed novels and tracts written between 1767 and 1802. Part fact, part fantasy often tinged

with erotic fancy (as illustrated), his work is a unique but diffuse picture of urban life. The novels focus on the vicissitudes of the human heart and the inevitable corruption of country innocence by the fascinating vices of the city

2 *Gulliver's Travels* has outlasted its original political and social targets. This work by Jonathan Swift (1667–1745) has become a landmark in English fiction. Gulliver, the one flesh-and-blood character, moves in a fantasy

world that owes nothing to conventional fiction. He is tossed between a world of giants and a world of midgets, meets with nobility and villainy, and is at last returned to his own tragic fate, incapable of perfection in Swift's eyes



3 The literary partnership of Richard Steele (1672–1729) and Joseph Addison (1672–1719) set the civilized tone of the Augustan age in their publications: the *Tatler* (1709–11), the *Spectator* (1711–12) and the *Guardian* (1713). Both were among the 48 wits, politicians and men of letters who were members of the Kit Club. The *Spectator* embodied the clubman's concern with manners, morals and character.



The pre-eminence of the English novel did not obscure the brilliance of the French authors who chose this form. The Abbé Prévost (1697-1763) was successful with *Manon Lescaut*, the seventh volume of his dull *Memoirs of a Man of Quality* (1728-31), and he translated all Richardson's work into French. Choderlos de Laclos (1741-1803) published *Les Liaisons Dangereuses* in 1782, a novel that analysed corruption just as *Manon* depicted the degradation caused by passion. Fiction for Voltaire (1694-1778) [5] was only a device to convey ideas: with the pessimistic *Candide* (1759), the optimistic *Zadig* (1747), through *L'Ingénu* (1767) and *La Princesse de Babylone* (1768) he conveyed his freethinking and rationalism

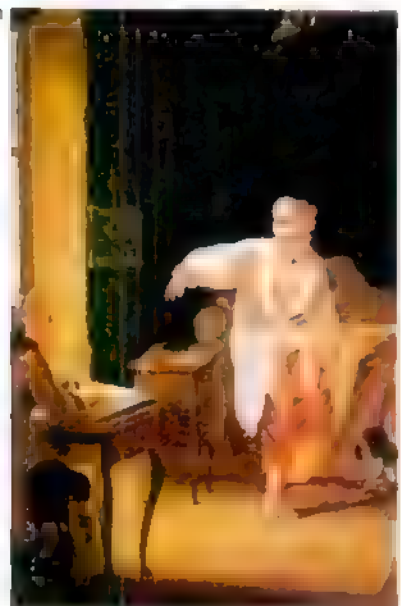
Daniel Defoe is at the well head of that other great manifestation of prose in the eighteenth century, the press. His weekly *Review* (1704-13) created a new class of reader which was also brilliantly served for a while

The Stamp Act of 1712 ended this brief golden age of journalism, but it led to a new form of weekly paper that by its size escaped duty and also assured the alliance of literature with the press. Such commendable ventures as the *Gentleman's Magazine* (1731) which ran for nearly two centuries, raised journalism above the Grub Street level and away from rival party politics.

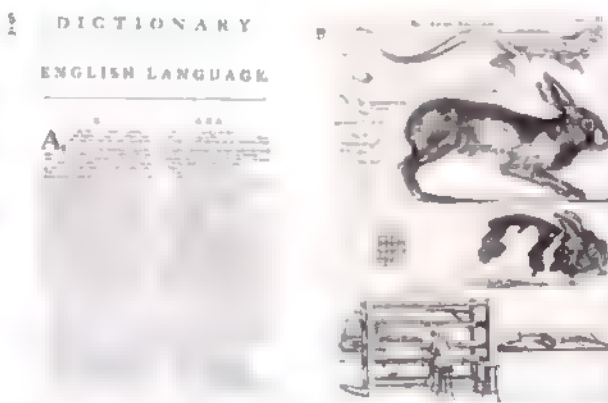
Inevitably, as newspapers began to see themselves as champions of public opinion, a struggle for freedom of speech was engaged. There were numerous bitter clashes before the controversy over John Wilkes (1727-97) and his weekly anti-government journal, the *North Briton*, was resolved in his favour.

printers and sold books over the counter. Samuel Johnson considered them to be "libers and enterprising," but the

popular view was of monopolists, contemptuous of genius, panders to the vilest taste and employers of worthless hacks.



4 Voltaire was a prolific writer (he is here dictating as he dresses) who produced in *Candide* a kaleidoscope of the adventures and misfortunes endured by Candide and Dr Pangloss. Polite irony and cheerful common sense pervade this fine tale, yet beneath the surface the characters are merely instruments of Voltaire's dialectic *Candide*'s motto, "All is for the best in the best of possible worlds" is ironically subverted by the action of the book: an intractable universe defies human attempts to impose reason on it. The author's ironical response to disillusionment is that "we should embrace a harder



5 The Dictionary (1755) of Samuel Johnson (1709–84) commissioned by seven booksellers for £1,575, was a great single-handed feat of scholarship [A] With his idiosyncratic etymologies, definitions and quotations Johnson surpassed the struggling French Academy which was engaged on an identical task. *The Encyclopaedia Britannica* was a Scottish dictionary (B) issued in parts by William Smellie from 1768. 71



7 *Pamela*, the first work of a London printer, Samuel Richardson, titled the reading public of 1740. The author was a plain unadventurous man who had nevertheless revealed the ways of the female heart. *Pamela* is a moral

tain in which the heroine is a maid - here seen asking her master a blessing exposed to the designs of the son of the house Vivid in dialogue and told in a series of confidential letters its instant fame encouraged Richardson to

produce *Clariissa*, another novel in epistolary form. Henry Fielding's parallel and at times competitive career yielded more robust novels, including *Jonathan Wild* (1743), *Tom Jones* (1749) and *Amelia* (1751).

The Rococo

The Rococo was perhaps the first purely pleasure-giving style in the history of art. It had no didactic purpose or message, it was not a form of thanks-offering to God, and was not particularly adapted to telling stories or supplying an all round picture of the world. Its primary aim was to delight.

The spirit of the Rococo

This is not to say that the Rococo could never be a vehicle for serious feeling, as the paintings of Antoine Watteau (1684-1721) demonstrate (although they are admittedly fairly exceptional), or that it was altogether cut off from reality. On the contrary, Rococo artists were fascinated by nature, especially plants, small animals and birds, and at least one painter, Jean Baptiste-Siméon Chardin (1699-1779), was a supreme natural observer. But these considerations apart the Rococo was essentially playful, decorative and witty, a style in which taste and ingenuity were pursued as ends in themselves. Unsurprisingly, it was not a style for a wide public or for official monuments, rather its sphere was the private apartments and plea-

sure gardens of a small, sophisticated élite.

In keeping with all this, the Rococo was developed at least as much in the so-called applied arts of furniture, porcelain, silverware and interior decoration as it was in the fine arts of painting, sculpture and architecture. Indeed, the term can hardly be used of architecture at all, except in relation to its surface decoration, as Rococo had no role in the field of structures. The applied arts, on the other hand, were ideally suited to the style and it is noteworthy that they re-entered the mainstream of stylistic developments for the first time since the Middle Ages (when they were not, as they were with porcelain, entirely new).

Historically, Rococo grew out of the Baroque style that preceded it and of which it was in one sense a continuation, although at the same time it represented a reaction against Baroque gravity and pomp. Its heyday coincided almost exactly with the first half of the eighteenth century. It occurred chiefly in France and the German states - in the latter partly under French influence - but it also spread in some degree to Britain, Italy

and other countries on the outer ring of Western Europe. The word "rococo" probably derives from *rocaille* ('rockwork'), meaning the shells and bits of rock used in sixteenth-century decorative schemes; this is appropriate because many characteristics of the style, such as irregular S-curves, wavy spikes and asymmetry, are to be found summed up in a certain type of shell [Key].

Rococo interiors

The first Rococo interiors appeared about 1700 in the very citadel of French Baroque - Versailles [1] and its associated royal châteaux. In their various private apartments the style of decoration used, instead of heavy architectural features, a series of tall wooden panels, painted ivory-white and covered with low-relief carving in gilt. Mirrors, especially over the chimney-pieces, formed an important part of the decoration. The effect was rich and even restless, for there was no break in the scheme, but it was in a sense intimate - the setting for a 'private' rather than a 'public' life.

The style soon spread from Versailles to

CONNECTIONS

See also

Baroque and Rococo
17th-century Baroque and Classical music



1 The Cabinet de la Pendule (1738) forms part of the private apartments created by Louis XV at Versailles. They were deliberately planned to be lighter and more intimate than the state apartments made for Louis XIV and are typical of French Rococo.

2 Watteau, the creator of French Rococo painting, designed a new genre for it, the *fête galante*, in which a kind of game of ideal romantic love is played out by real people clothed in fancy dress. In his most famous painting, 'Departure for the Island of Cythera' (1717), part

of which is reproduced here, the lovers are shown preparing to leave the island that the Greeks knew as the birth place of Aphrodite after a day's pleasure. The style is colourful and the picture charged with the atmosphere of passion and sweet regret.



3 Among the most dazzling of all secular Rococo interiors is the Hall of Mirrors in the Amalienburg, the park pavilion built near Munich by François de Cuvill-

lés in 1734-9 for the Bavarian Elector, Karl Albrecht. Although the style shows French influence, the design is developed with a great freedom and

pleistfully typical of Germany. Decorative motifs inspired by an overgrown garden climb up the walls between the mirrors and spill out on to the ceiling.

the smart houses of Paris, where it became even more extravagant, and from there it was carried to the francophile German courts. As for the designers, they often came from a north European provincial background where there were long traditions of craftsmanship trained in Paris, and either stayed there or moved on to one of the French provincial or German centres of patronage. One who followed this pattern is the Flemish-born François de Cuvillies (1695–1768) who, after a Parisian training became court architect to the Elector of Bavaria. His Hall of Mirrors in the Amalienburg, an ornamental villa in the grounds of Schloss Nymphenburg, near Munich, is more fantastic in design than anything in France, and is perhaps the finest example of Rococo decoration anywhere [3].

Besides this French-inspired Rococo there was in Germany a more native form of the style, particularly in churches. Unlike French Rococo this emerged by a process of natural evolution from the Baroque, which still flourished in Germany in the eighteenth century. Often indeed a Baroque church

such as Ottobeuren [4], will contain Rococo decoration inside, in a style produced mainly by changing the powerful, dynamic rhythms of the Baroque into the quicker, more playful and more sinuous ones of the Rococo without altering the forms themselves.

Watteau and Boucher

Rococo painting, on the other hand, was created by a single artist of genius, Antoine Watteau. Basing his style on the Flemish Baroque painter Peter Paul Rubens (1577–1640), Watteau invented a new pictorial genre, the *fête galante*, in which the loves of the classical gods are replaced by the fantasy loves of human beings, as in a ballet or opera [2]. As the nineteenth-century critics, the brothers Goncourt, wrote 'Watteau renewed the quality of grace'. His truest successor was Chardin, whose subject-matter – still life and scenes of gentle bourgeois domesticity [6] – was real, not ideal, but Watteau also provided the starting-point for the decorative painter, François Boucher (1703–70), the most erotic and the most successful artist of the age [5].

REV



Rococo forms and asymmetry together with the Rococo love of marine and plant life are reflected in this shell (c. 1710–15), drawn by Watteau, the foremost painter of the Rococo.

4 The Abbey Church of Ottobeuren (Bavaria) (1737–67). Like many German 18th-century works, it is by several hands and combines more than one style. The architecture, late Baroque with regularly grouped columns and a heavy cornice, was

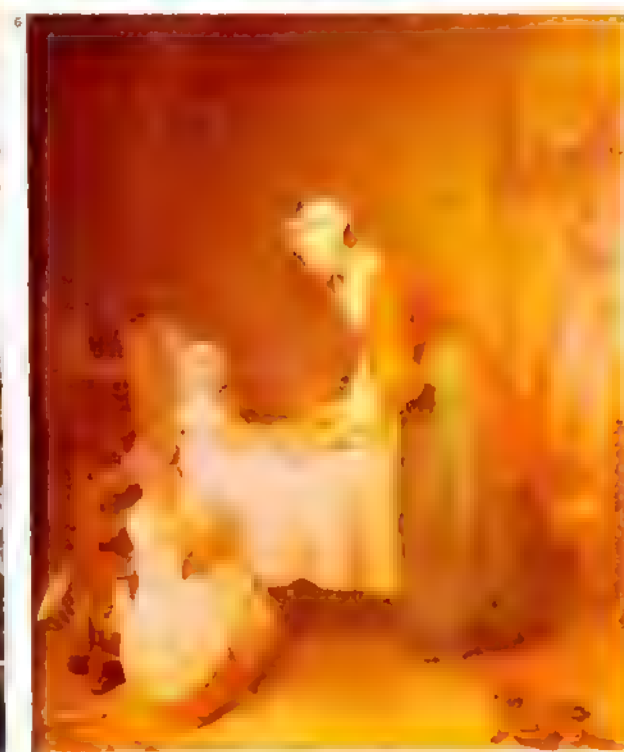
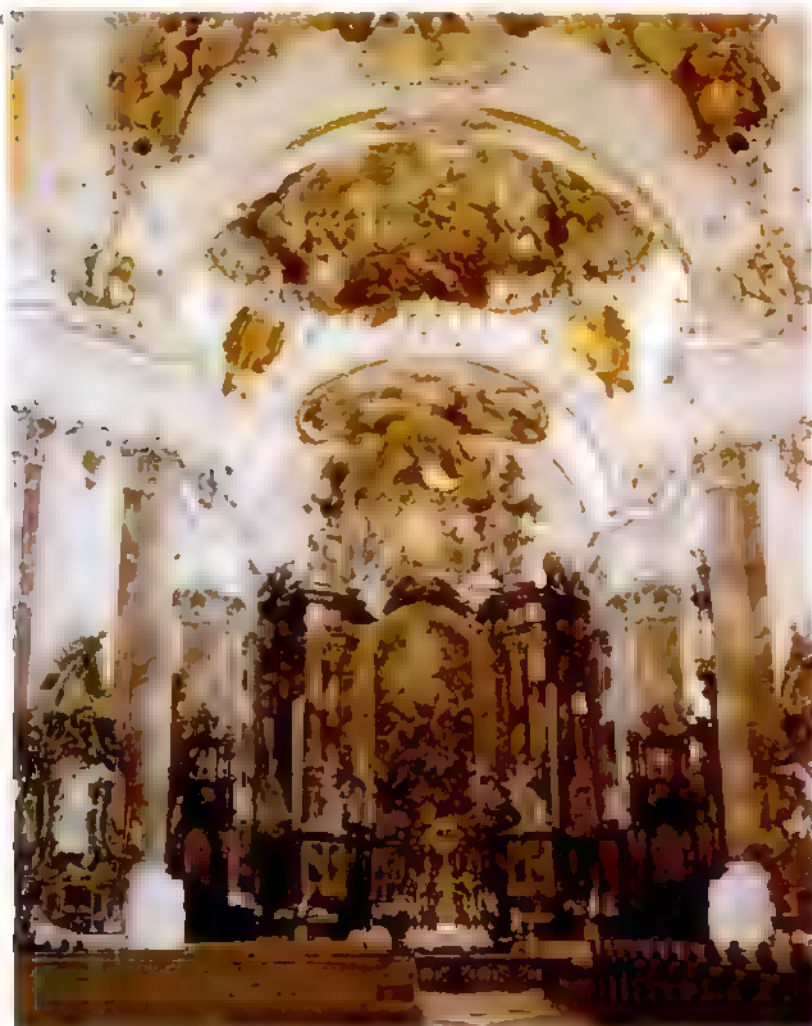
completed by Johann Michael Fischer (1692–1768). The Rococo ornament, playful, inventive and brilliant in white, gold and other colours – was executed by the stuccoist Johann Michael Feuchtmayr (1709–72).

5 Eroticism was a favoured quality of art at the sophisticated pleasure-loving court of the French king Louis XV. Its most fluent exponent was François Boucher, whose 'Cupid and Psyche' (detail) was part of a series painted in 1756 for

the boudoir of Louis's most celebrated mistress, Madame de Pompadour. The result is a decorative, asymmetrical mixture of forms similar in feeling to a figure group in porcelain or a Rococo silver table ornament of the period.



6 Using the themes of the love between a mother and her children and the innocence of childhood, Jean-Baptiste Simeon Chardin produced, in 'Saying Grace' (1740), a remarkably unsentimental picture. He relies on a simple pyramidal composition, balanced yet still with a hint of asymmetry, and restricts his facility with still life to subordinate details, such as the toy drum, the pot in the foreground and the objects on the table. But while he rejects the Rococo spirit of frivolity, his style retains a Rococo grace.



Early ballet

Ballet was in its infancy at the beginning of the seventeenth century, having been introduced to the French court from Italy by Catherine de' Medici (1519-89). A ballet then consisted of a number of *entrées* by masked dancers in elaborate costumes, and at the conclusion there was a *grand ballet* in which the king and queen generally took part. The *entrées* for the ballets of Louis XIII (1601-43) were related to a theme, which was explained by speech or song.

Court ballet in Italy and France

Two of the most famed of the court ballets were *La Liberazione di Tirrenio* [1], given in Italy in 1616, and *La Délivrance de Renaud*, performed at the French court a year later. Many of the ballets had political significance, *La Délivrance de Renaud* was typical in that it was intended to reassure the Spanish and Austrian ambassadors that Louis XIII was still ardent towards his queen. For the ballet's presentation seats were erected in tiers along the length of the Grande Salle of the Louvre, with the royal throne at one end facing a stage concealed from the audience by a painted

drop curtain. On either side of the hall musicians were concealed in clumps of trees. After a short opening chorus the curtain rose to reveal a grotto at the back of the stage with Monsieur de Luynes, the dancer portraying Renaud, lying on the grass. The king and 12 of his gentlemen represented devils left by another character, Armide, to watch over Renaud. Louis, de Luynes and two other gentlemen came down to the floor of the hall and performed the first *entrée*.

Following further *entrées*, there was a magical transformation on stage in which a mountain revolved to show a garden with three fountains, a nymph, portrayed by a young boy, rose from a fountain and sang, six monsters appeared and attacked two knights before fleeing, a giant cart, on which there were singers and a small wood, entered the hall and a choir of 92 voices sang the triumph of Renaud. Finally the king and his gentlemen came down into the great hall to perform the grand ballet.

During the reign of Louis XIV (1638-1715) [Key] the ballets attained an unparalleled splendour with dances arranged

by Pierre Beauchamp, music by Jean Baptiste Lully (1632-87), words by Molière (1622-73) and designs by Jean Berain. These ballets sometimes took place out of doors. *Le Carrousel de Louis XIV* was a celebrated horse ballet given in front of the Louvre in 1662. Two years later *Le Palais d'Alcine* [3] was given in the grounds of the Palace of Versailles, using one of the lakes as a convenient part of the setting.

The Royal Academy of Music

The Royal Academy of Music (now the Paris Opéra) was founded in 1669, and three years later Louis XIV authorized Lully to add to this academy a school to educate pupils in dancing as well as singing, playing the violin and other instruments. However, in creating the Academies, Louis unwittingly helped bring about the decline of ballet at court. With the king's retirement from dancing the amateur gradually gave way to the professional dancer, and in 1681 the first professional women dancers took the stage.

Ballets at the turn of the century still combined dancing, music and singing – in other

CONNECTIONS

See also

model – Baroque and



1 *La Liberazione di Tirrenio* was given at the theatre of the Uffizi Palace in Florence in 1616 to celebrate the wedding of the Duke of Mantua to Catherine de Medici. The spectators were seated on raised platforms on either side, with the royal host in the foreground. Divinities were lowered on a cloud machine and the dancers descended from the stage to join in the grand ballet on the floor of the hall.

2 This horse ballet was performed in the open air in Florence to celebrate a visit by the Duke of Urbino. 42 horse riders and 300 foot soldiers were used in this representation of a battle.



3 The island of Alcine appeared in *Le Palais d'Alcine* performed at Versailles in May 1664 on the third day of a series of entertainments.

Alcine's nymphs, who were on dolphin. On both sides are rocky stands where the

orchestra sits. On a dais in the background is Alcine's enchanted palace which was 'destroyed' in a huge fireworks display.



4 *Le Triomphe de l'Amour*, a ballet by Jean Baptiste Lully, was presented at St Germaine in 1681. When the work was given a little later in public

at the Academy of Music, Paris, the leading female part, previously danced by Louis XIV's dancing master Pierre Beauchamp, was given to Mademoiselle

Lafontaine who became the first professional woman ballet dancer. The costumes were designed by Jean Berain who had the men appear in Roman guise while

the women wore stylized adaptations of court dress, despite these hampering long robes Lafontaine's grace won her the title 'queen of the dance'.

words, operas with the dancing subservient to the singing. It was not until 1717, in John Weaver's *The Loves of Mars and Venus* at the Theatre Royal, Drury Lane, London, that the dancers alone conveyed meaning through movement. In this ballet Weaver made a clear distinction for the first time between the steps given to the man in the *pas de deux* and those given to the woman.

The dancers: teachers and pupils

The eighteenth century saw the rise of many famous *danseuses*, such as Marie Camargo [5], Marie Sallé and Madeleine Guimar, and *danseurs* such as the Vestris, father and son [7], and Pierre Gardel. Both Gaetano and Auguste Vestris appeared in ballets by Jean-Georges Noverre (1727–1810), one of the most influential men in the history of ballet. Noverre put into practice the theories set out in his *Lettres sur la Danse et les Ballets* published in 1760. Reforms he suggested included abolishing the mask (it was actually Maximilien Gardel who implemented this) and replacing the series of conventional dances which then constituted a ballet with

the *ballet d'action*, in which dance and story were united.

Noverre's pupil, Jean Dauberval, moved ballet a further step forward in 1789 with the first comedy ballet *La Fille mal gardée*, in which ordinary people replaced the usual collection of conventional shepherds and shepherdesses.

Charles Didelot [8], who trained in turn with Dauberval, Noverre and Auguste Vestris, synthesized the contributions of his three teachers. From Dauberval he took ideas for comedy ballet, from Noverre the *ballet d'action* and from Vestris the pure dancing. Didelot's ballet *Flore et Zéphyr*, produced at the King's Theatre, Haymarket, in 1796, not only put these ideas into practice but also introduced dancing on point (on block dancing shoes). This was probably brought about by an improved flying machine that enabled dancers to fly across or round the stage, because the dancer rose on to the tips of her toes before beginning her flight. The development of dancing on point paved the way for the romantic ballets of the early nineteenth century.

Louis XIV appeared as the Sun King in *Le Ballet de la Nuit* given in 1653. The ballet's 43 *entrées* symbolically spanned 12 hours, the king appearing in the fourth and last section covering 3am to sunrise. Louis, aged 14, was dressed in the male costume typical of the period – short, scalloped skirt and plumed headdress embellished with the sun and its rays. In ballets during his reign, *entrées* represented exalted figures: Apollo, Neptune and Jupiter. His last appearance was in 1669. Louis, ballet master, Beauchamp, invented the five accepted modern positions of the feet in order to make the dancers appear more elegant.



5 Marie-Anne de Cupis de Camargo (1710–70), the first famous ballerina, was painted by Nicolas Lancret in this idealized pastoral setting. In 1730 she created a sensation by shortening her skirt several centimetres to enable her to perform *entrechats* (the crossing and uncrossing of the legs in a vertical jump). Camargo was renowned for her technical brilliance and vivacity while Marie Sallé was more expressive and graceful. Sallé appeared in her own creation of *Pygmalion* wearing a plain muslin dress draped like a Greek robe. Isadora Duncan 200 years later was the next dancer to adopt this revolutionary costume.



6 The basic costume for the male dancer in the mid 18th century was plumed helmet and tunic, with short hooped skirt (*tonnelet*). It was adapted by varying the decoration and type of mantle to show the character. The costume shown here for a faun, possibly designed by P. L'Or, is draped and spotted to suggest an animal's skin with vine leaves in the hair, at the elbows and across the tunic and a pan pipe resting in the leaves on the *tonnelet*. The dancer is wearing buskins on his legs. In 1907 Alexandre Benois was to revive this style in his costumes for *Le Pavillon d'Armide*, which brought fame to Vaslav Nijinsky.

7 Vestris father and son were both remarkable dancers. Gaetano (1729–1808), was known as the God of Dance and his son Auguste (1760–1842) was one of the greatest dancers in the entire history of ballet. He was renowned for the extraordinary height of his jumps and was the *premier danseur* at the Opéra for 36 years, coming out of retirement in 1835 to partner the young Marie Taglioni in a minuet. He is shown here dancing at Vaux hall. The significance of the geese becomes clear in a quotation from Plutarch: "A stranger at Sparta standing upon one leg said to a Lacedaemonian: 'I do not believe you can do as much.' True, said he: 'but every goose can.'"



8 Charles Didelot and Mademoiselle Théodore appeared in *Amphion and Thalea* at the Pantheon, London in 1791. Thomas Rowlandson's painting shows not only the two dancers, but also the musicians and crowded auditorium

of a typical theatre of the time. The French Revolution two years before had been responsible for alterations in costumes which were taken up on the ballet stage. Dresses, now modelled on the tunics of ancient Greece and

Rome were lighter and slightly transparent. The shorter dress of transparent material led to the introduction of tights or *maillots*. Pink tights were worn by Didelot, who also introduced the transparent tunic in *Cansandrie* in 1791.

Baroque and classical music

The Baroque era in European music dawned in Italy at the beginning of the seventeenth century with a new expressive style of singing modelled on natural speech and established in the first tentative operas. The genius of Claudio Monteverdi, who was master of music at St Mark's, Venice, for 30 years from 1613, was able to embody both old and new styles in his *Vespers* (1610). The richness of his sacred and secular music (especially his operas) stems largely from his imaginative synthesis of both traditions. In contrast to the older, other-worldly polyphony, an urge to express the feelings came to dominate the music of the Baroque age, a trend that led to excessive ornamentation comparable with some architecture of the period.

The rise of instrumental composition

The Catholic Church was not slow to sanction the attractive new style in its Counter-Reformation drive, and the Oratory of Philip Neri in Rome was the scene of sacred dramatic works by Giacomo Carissimi (giving music the "oratorio"). Alessandro Scarlatti in Naples contributed brilliantly to a

Neapolitan opera style and established the *sinfonia avanti l'opera*, the Italian opera overture – an ancestor of the movements of the classical symphony in its quick-slow-quick movement format. The new operatic convention of emphasis on a solo voice over a bass line was also to have large implications for the development of instrumental music where small groups of solo instruments separated out, as in the divided orchestras of Alessandro Stradella in the beginnings of the concerto. Giuseppe Torelli, Arcangelo Corelli, Tommaso Albinoni and Antonio Vivaldi [1] were principals in the development of the instrumental *concerto grosso* (a small instrumental group in contrast and in combination with a larger group) and the solo concerto. The development of violin making in the great Cremona families of Amati, Stradivari and Guarneri greatly assisted composers to obtain orchestral expressiveness.

In small chamber groupings [2], the new style demanded an harmonic filing. This led to the Baroque convention of *harso continuo* [7], using a harpsichordist to direct a performance from the keyboard while "fil-

ling in" the harmonies as indicated in a short-hand notation in the bass part. Music for these small groups formed the core of the popular trio sonata. *Sonata* meant simply a piece played instrumentally, as opposed to *cantata*, to be sung, and only later acquired its specialized use. A distinction was made between the *sonata da camera* (chamber) movements for dancing, and the *sonata da chiesa* (church) usually four movements starting with an adagio (slow) movement.

The style spreads through Europe

Eventually Italy's dominant influence in operatic and instrumental styles spread throughout Europe. In Germany Heinrich Schütz – whose Passion compositions influenced J. S. Bach – Michael Praetorius and Johann Jakob Froberger (1616–67) were leading disciples of the style. In France, Louis XIV's court dictated taste for nearly a century and was served by an Italian horn-baller and opera composer, Jean-Baptiste Lully. Jean Philippe Rameau maintained the independent French tradition in orchestral music and opera.

CONNECTIONS

Baroque

1 Antonio Vivaldi (1675–1741) was a prolific Venetian composer and master of the concerto – a form that emerged in Italy during the Baroque. He was a virtuoso violinist and his more than 400 works include many for solo violin and for groups of violins with orchestra. He worked as director of a combined music school and orphanage, the Ospedale de la Pietà in Venice (1703–40), composing many works for his charges.



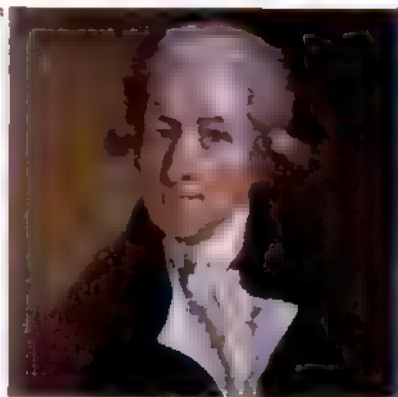
2 The collegium musicum, or amateur musical society, was a major support of music in Germany in the 17th century. These institutions reflected the rise in middle-class prosperity and were frequently attached to the universities. They spread to nearby countries and also to America. Many of the societies gave public concerts. The famous Leipzig Collegium was founded by George Philipp Telemann in 1701.



3 King Frederick the Great of Prussia, who reigned from 1740–88, was a typical royal patron of his time. An iron ruler of the old Prussian military class, he was also an amateur flute player. His palace in Berlin and summer residence in Potsdam

provided employment for a band of notable musicians which included C. P. E. Bach and Johann Joachim Quantz, who was a gifted flautist. Church and aristocratic patronage, which would see their final flowering in the late 1700s, had

been the support of music up to that time. There had been many famous associations of composer and patron: Lully, Couperin and Louis XIV, James II, William and Mary and Purcell, Handel and George I, Haydn and Prince Esterházy.



4 Franz Joseph Haydn (1732–1809) was the major composer of the early classical period and was responsible for giving such structural cohesion and organization to the sonata principle in the symphony and string quartet that accepted forms of these compositions can be said to date from his time. The Hungarian Esterházy family were his employers, but he also visited London twice, where he was greatly admired.

5 The Mozart family was portrayed by della Croce. The composer Wolfgang Amadeus is at the harpsichord with his sister Maria Anna. His father, Leopold, is prominent with his violin, while the composer's dead mother, Anna Maria, gazes down from a portrait on the wall. Leopold toured the children as musical prodigies and the precocious Wolfgang astonished his father with his compositions and performances.



In England, after the Restoration in 1660, Henry Purcell created vital English music that would be matched only by Handel. In the momentous year 1685 Handel, J. S. Bach [key] and Domenico Scarlatti were born. Of the three, Scarlatti's influence was the lightest, but in his hundreds of harpsichord works one can hear hints of the classical keyboard sonata.

Handel and J. S. Bach were the complementary giants of the High Baroque era. They followed distinct yet not opposed paths. Handel, extrovert and worldly, was at home in the intrigues of the opera house and happy in the massed performances of his English oratorios such as *Messiah* and *Judas Maccabeus*. J. S. Bach was confined to provincial Germany, devotional in his music, an industrious court and municipal composer who always had to fight to maintain the meagre musical forces at his disposal. He summarized rather than innovated and contemporaries associated the name Bach more readily with his son Carl Philipp Emanuel, whose dramatic style was more akin to the natural simplicity and passion

advocated by the French philosopher Jean Jacques Rousseau than to the grand, unified and somewhat rigid expressions which large Baroque forms like the fugue had become.

The classical period emerges

The classical period which rose on the foundations of the Enlightenment in response to the overdeveloped, ornamental style of High Baroque and Rococo music found two masters in Joseph Haydn [4] and Wolfgang Amadeus Mozart [5]. Their classical style distinguished itself from the many voiced Baroque texture by its greater clarity and simplicity of thematic treatment and chordal accompaniment. The prolific Haydn drew on his peasant origins to maintain a vitality in his music, and his innovations in form and the use of key relationships were to be highly influential. Mozart, drawing on Haydn, the continuing Italian influence and his own genius, proved a brilliant exponent of all the forms bequeathed by Baroque and early classical music. Only Beethoven [8] would be comparable, spanning the classical and Romantic styles with the stamp of genius.



Johann Sebastian Bach (1685-1750) brought the great contrapuntal forms of Baroque music to the peak in a glorious summary of the musical development of several centuries. A member of a long established dynasty of musicians, Bach lived most of his life in the eastern German province of Thuringia, working mainly at the courts of Weimar (1708-17) where much of his organ music was composed, and at Cothen (1717-23), a fruitful time for composition which included his *Brandenburg Concertos*. His last post was at St Thomas's Church in Leipzig (1723-50) for which he wrote his great church works among them the *St Matthew Passion* and most of his cantatas.



Neoclassicism

Neoclassicism, a movement of the late eighteenth century, was a reaction against the excesses of the Baroque and the Rococo but more important, the fruit of a new age of inquiry into ancient Greek and Roman art.

Knowledge of antiquity

Some classical buildings, especially in Rome, had always been familiar as they were above ground. With the passionate interest in the Antique that inspired the Renaissance, pieces of classical sculpture, including several important ones, were dug up in Italy in the fifteenth and sixteenth centuries. But the very vitality and freedom that characterizes Renaissance art in a sense depended on a degree of ignorance of its sources; the few examples that were known fired the imagination in a way that the thousands of pieces that became available later could not have done. More than this, no distinction was yet drawn between Greek and Roman art or between different periods of either. Although the importance of the Greek contribution was known in theory from texts, this was particularly so in painting, of which almost no exam-

ples survived – classical Greek sculpture of the fifth and fourth centuries BC was known only through Roman copies.

This situation altered only gradually in the seventeenth century, with the research now done on more scholarly lines. The decisive change came in the eighteenth century, when not only were far more classical statues excavated and a museum of them opened on the Capitol in Rome, but whole unknown ancient arts were rediscovered, such as Greek painting at Herculaneum and Pompeii, near Naples, and Greek vases, then paradoxically thought to be Etruscan, in southern Italy. In short a new science, archaeology – was born. Above all, Greece itself was explored, notably by the British architects James Stuart (1713–88) and Nicholas Revett (1720–1804) and by the end of the century a real perception existed of the differences between Greek and Roman architecture. A further revelation was brought about by the arrival of the Parthenon sculptures in London, imported from Athens by Lord Elgin (1766–1841) in the nineteenth century, for these showed that the

art of the greatest Greek sculptor, Phidias, did not conform to the so-called 'classical ideal' as it had been previously understood but consisted instead of something at once more primitive and more naturalistic.

These developments were associated with a new sense of history. Scholars and amateurs (who played a key role in the Neoclassical movement) were now concerned to place things in chronological order and in the context of the culture that produced them. In particular, they were fascinated by what came first and was thus the most primitive.

The new conception of the Antique

Out of this in turn was evolved a new conception of the Antique on which Neoclassicism was based. The Antique was now austere, simple, static, with clear, hard outlines and in sculpture and painting, almost without shadows or foreshortening.

One further piece in the jigsaw remained the mural element. It was a preoccupation with this that brought the Neoclassicists in France out in full cry against the Rococo. The French reformers were full of admiration for

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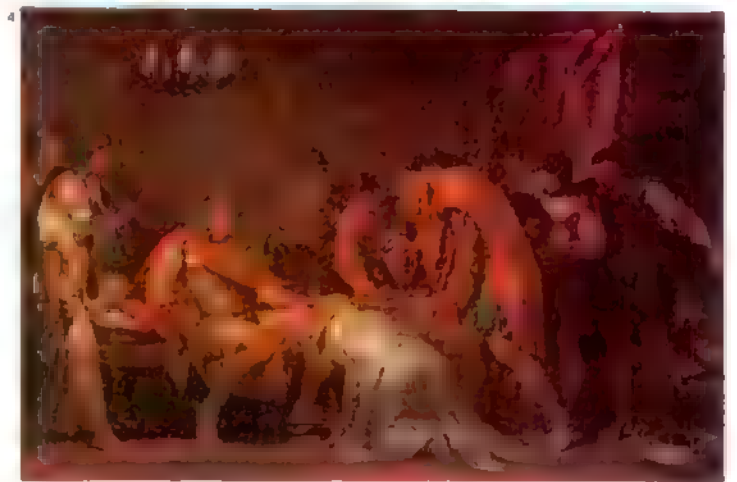
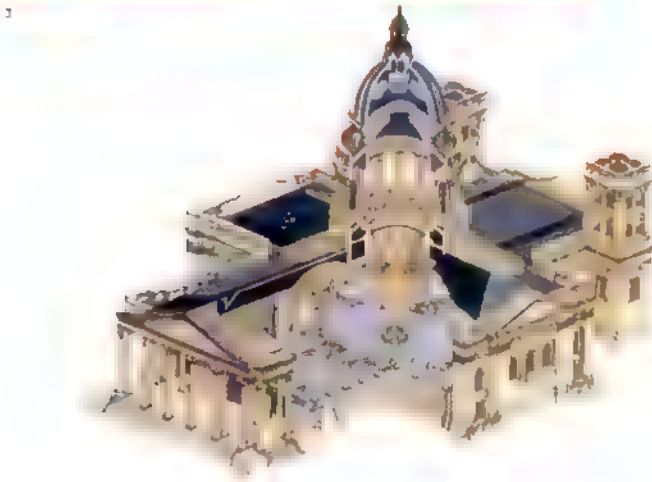
18th century

1 This secretaire was made by J. H. Riesener (1734–1806) in 1783 for Marie Antoinette in the Louis Seize style. It has Neoclassical lines but a richness of ornament that was typical of the period.

2 Collecting antiques was a central part of the Neoclassical movement. Sometimes it reached absurd proportions as with Charles Towneley and his marbles (1782) painted by Johann Zoffany (1734–1810).

3 Jacques-Germain Soufflot's Church of Ste Geneviève (now the Pantheon) Paris built 1757–92) was the first large Neoclassical building. It was also influenced by the dome of St Paul's, London.

4 The revival of Greek poetry as a subject for art is reflected in 'Prætor Begging Achilles for the Body of Hector' (1770) by Gavin Hamilton (1723–98).



the Roman ideals of civic virtue and the Greek experiment in democracy. The Rococo began to seem identical, frivolous style associated with a decadent, frivolous society. There was a strong move towards bourgeois rectitude, a wave of moral idealism which carried over into the Revolution. The Antique, as it was newly conceived, appeared the perfect visual counterpart of this.

Neoclassicism in France

Consequently from about 1760 onwards there was in all the arts in France, but first in architecture and the applied arts, perhaps last in painting and sculpture, a reaction in favour of straight, simple lines and austere ornament derived from classical and sometimes specifically Greek models.

The first important French building to show this trend was the Pantheon in Paris, although it was more Roman than Greek, designed by Jacques-Germain Soufflot (1713-80) as early as 1755-6 [3], a fuller, more imaginative brand of Neoclassical architecture was developed some years later by Claude-Nicolas Ledoux (1736-1806). In

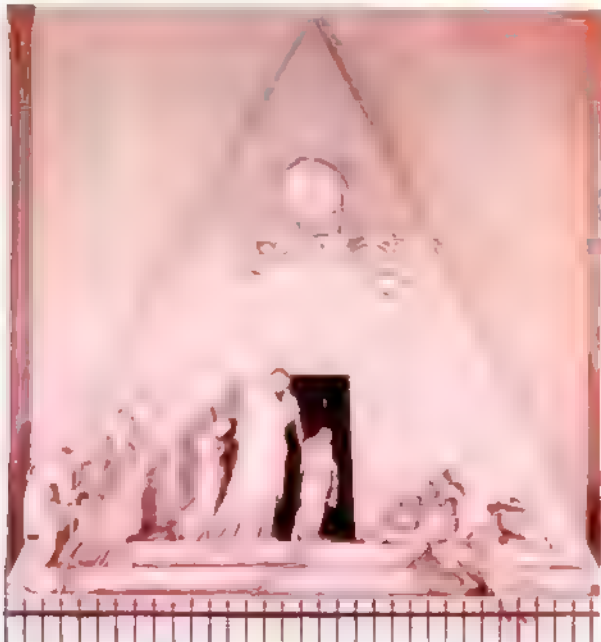
painting it was less easy to depend on classical precedent because surviving examples were few. The solution was to use as an intermediary the greatest seventeenth-century master of classicism, Poussin, his influence was of vital importance for Jacques-Louis David (1748-1825), the first major Neoclassical painter and the interpreter of both the heroic spirit of the Revolution [6] and the imperious genius of Napoleon. His successor Jean-Auguste-Dominique Ingres (1780-1867), evolved a purer, more refined form of Neoclassicism [7], harking back to Raphael and Pompeian painting.

Although the greatest Neoclassical paintings and buildings were French, the movement was an international one. By far the greatest Neoclassical sculptor was an Italian, Antonio Canova (1757-1822) [5], but German architects evolved the most widely manifested of the style in the early nineteenth century. Neoclassicism was by no means a merely backward looking or monolithic phase of art history, on the contrary, it reflected the radical questioning of established values in a period of revolution.

KEY

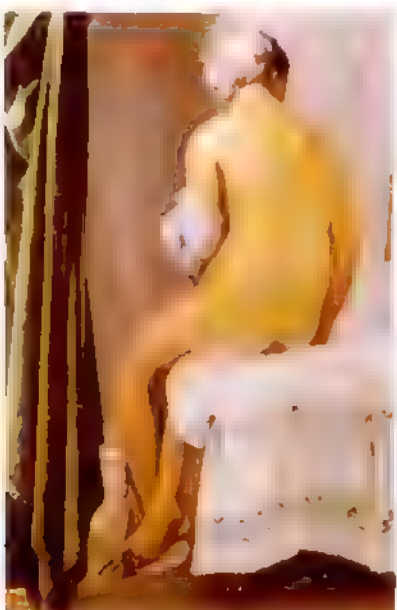


As with the Rococo some of the most attractive and ingenious expressions of Neoclassicism are to be found in the applied arts. Devotees of Neoclassicism liked to own ornaments derived often rather freely, from objects that once had a practical or symbolic function in antiquity. This Pedestal and Vase in the Etruscan Taste" (c 1795) by the British architect Robert Adam (1728-1792) has a base like a Roman altar with Greek decoration and a Greek vase on top. While the curling candle brackets and lighthearted mood recall the Rococo, the straight lines and figured decoration are in the purest spirit of Neoclassicism.

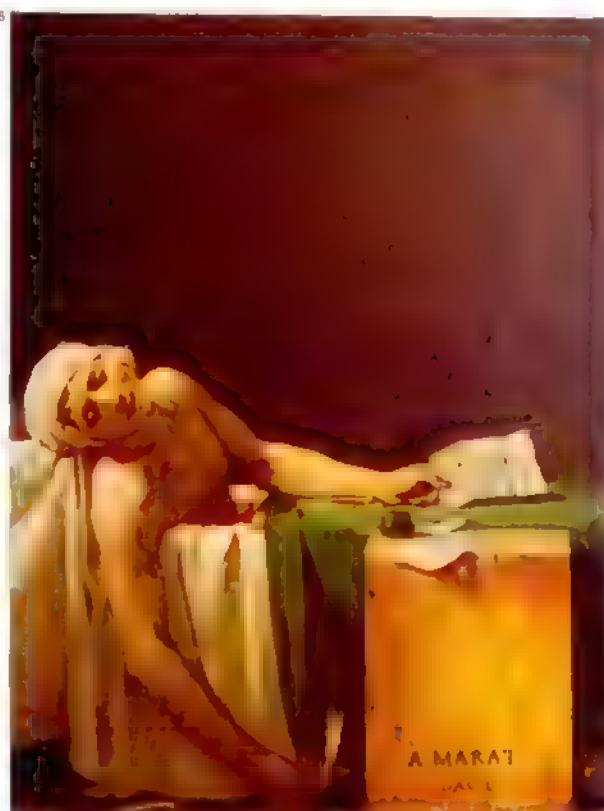


5 Startling illusionism is combined with Neoclassical control in Antonio Canova's "María Christina Monument" (1799-1806): a group of allegorical mourning figures led by Piety (with the urn) appears to move through an open door into the grave. The deceased was an obscure Austrian duchess, but the conception of the tomb goes beyond a particular death to pose questions about the mystery of death in general.

6 Jacques-Louis David's painting "The Death of Marat" (1793) is a commemorative monument but with everything concentrated on the individual. David depicts Jean Paul Marat, the French rationalist writer and demagogue, stabbed at work in his bath by Charlotte Corday, as a revolutionary martyr. Neoclassical touches include the ideal treatment of the figure of the classical philosophers, Socrates and Seneca, and the clarity and economy of the painting's design.



7 A less brutal, less realistic painter than David, Jean-Auguste-Dominique Ingres interpreted Neoclassicism mainly in terms of form. He created an ideal, dignified world of pure contours and clean colours, yet not a world without feeling - all well exemplified by his "Baigneuse" (1808). He was the father of 19th-century academic art in Europe.



8 The founding of public museums in the major European cities was one of the products of Neoclassicism.

The Old Museum, Berlin (1823-30) by Friedrich Schinkel (1791-1841), built to house the art collection of the Prussian state, is an important example of Neoclassical architecture.



Napoleon in his
study



The British in India
an Indian army
progresses through
Rajasthan with his
escort of cavalry and
foot soldiers.



International economy 1700–1800

During the eighteenth century trading links between Europe and the rest of the world strengthened into commercial bonds that were vital to the prosperity of several European states and to many of their merchants and workmen. The rise of Great Britain to a dominant position in trade, overtaking the Dutch, Spanish, and French, showed itself in extensive contacts and trading arrangements with the Americas and Asia [5]. There was a general expansion of trade at the same time, particularly in the Atlantic, in which other countries, especially France, shared. Expansion of trade brought with it specialization in shipping and financial business and provided a stimulus to the increased production of manufactured goods in Europe.

Incentives for trade expansion

The expansion of European influence in the years before 1700 had introduced a wide range of precious and tropical products which were the staples of extra-European trade. Gold and silver bullion had provided one major component of the trade of the declining Spanish Empire, but this trade had

also included spices, tobacco, coffee, sugar and cocoa. A growing taste in Europe for tropical products gave merchants the incentive to incur the risks of long overseas voyages. Merchants from countries such as Britain and France, which were relative latecomers to colonial trade, made greater efforts in the 1700s to capture part of the trade controlled by the older empires.

Several commercial wars were fought by the other European nations to open up the colonial trade of the declining Spanish Empire to their merchants. In 1715 British merchants obtained permission in the Asiento Treaty to deliver 4 800 slaves annually to the Spanish colonies and for one ship a year to trade with Panama. In all other respects, Spain tried to keep her colonial trade closed. But because Spain was unable to supply all the needs of her colonists, there was much illicit trade, especially in slaves and in manufactured goods. After the Seven Years War (1756–63) this tight control was relaxed and Britain and France seized a greater part of the Spanish American trade.

Similarly, British and Dutch ships cap-

tured an increasing share of Portuguese trade. In the East, the Dutch had taken over much of the old Portuguese Empire. With stations in Ceylon, Bengal, Malabar and Batavia their influence extended as far as Japan. Organized through the Dutch East India Company based on Batavia in Java, they carried on a lucrative trade in spices, coffee, and silks. By the end of the century, however, they began to feel the effects of competition from the British and French.

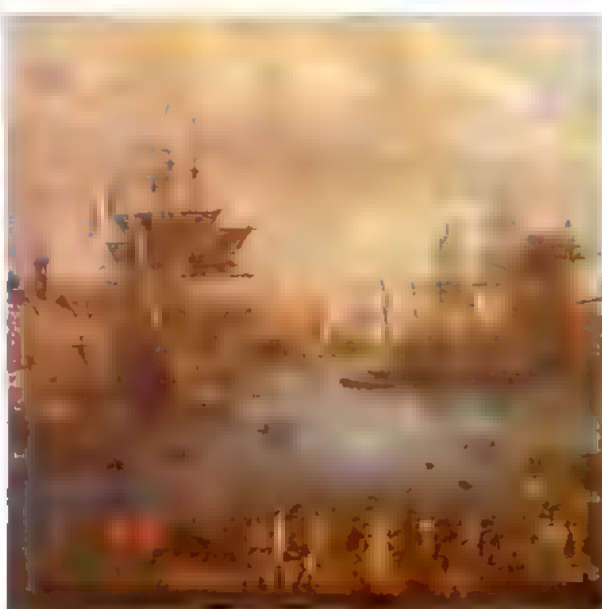
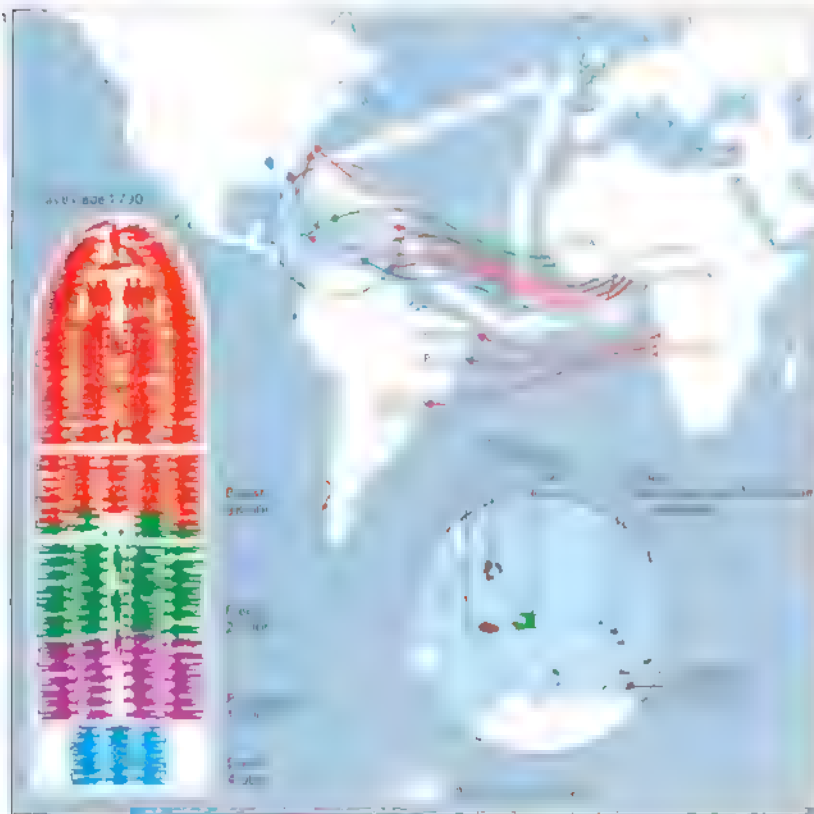
French and British power

France had colonies in North America, including Quebec and Louisiana, and in the West Indies, including Guadeloupe and Martinique; she held Senegal in Africa and colonized Madagascar and Mauritius in the Indian Ocean. In India, France maintained important trading positions at Pondicherry and Chandernagore. From these colonies and contacts French trade grew rapidly in the late eighteenth century, especially with the West Indies. After the Seven Years War, however, France lost Quebec and much of her influence in India. Nonetheless her

CONNECTIONS

See also

AFRICA: 1800
EUROPE: 1700
INDIA: 1700
MARTINIQUE: 1700
Y: 1700
Y: 1700
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1 The triangular route taken by slave ships from European ports such as Liverpool, Bristol and Bordeaux took them to Africa to collect slaves, across the Atlantic to sell them and back again with

cargoes bartered in exchange. The major share of the slave traffic was carried on by Great Britain by the end of the 18th century, supplying plantations in the West Indies and in the Americas.

2 Brest, on the Atlantic coast of France, and other Atlantic ports such as Bristol, Bordeaux and Liverpool grew enormously rich on the profits of the slave trade and colonial traffic.



3 Economic development in the West Indies depended on a steady supply of slave labour from Africa. The slave population and sugar production grew to satisfy the European demand for sugar.

4 Smuggling in the 18th century was a common way of avoiding heavy duties on commodities such as spirits, wines and tobacco. Revenue men waged an intermittent war with smugglers in many parts of Europe, especially in the Channel Islands.



easy trade with the remainder of her colonies led to the expansion of ports such as Bordeaux, Nantes, and Brest [2]. Marseilles prospered with the Levant trade.

The major rising power was Great Britain which exerted its superiority over the older empires by the middle of the century and conducted all the trade of its colonies in British-registered ships. In spite of the loss of the North American colonies, trade continued to expand with the Americas both through chartered companies, such as the Hudson's Bay Company [8], and through more open commerce. The vastly profitable but inhuman slave traffic was primarily in British hands by the end of the century, the "Triangular Route" [1] between Britain, Africa, and the Americas providing great profits upon which mercantile cities such as London, Liverpool and Bristol flourished. Second only to the slave traffic in importance was the sugar trade [3], which provided, with other tropical produce, a valuable re-export trade to continental Europe. In the Indian Ocean the British East India Company triumphed over the French and controlled

Bombay, Bengal, Madras and most of southern India but by the end of the century the trade was opened up and the company's monopoly broken.

Stimulus for industrialization

Expansion of trade led to increases in merchant shipping, and the development of more versatile credit and financial institutions. In London, firms of shipping insurers, such as Lloyd's, began to supplant the Dutch. Growing trade led to relaxation of the old mercantile ideas of monopolistic companies and favoured the adoption of laissez-faire ideas of free trade and open competition.

In many countries industries grew up that refined tropical products and re-exported them either to other European countries or back to the colonies as manufactured goods. Thus sugar-refining, tanning, distilling and many other processes became early examples of industrial activity. The most striking development by the late eighteenth century was the rapid rise in raw cotton exports from the southern states of America to the growing British textile industry.

KEY

Worldwide expansion of Europe's trade in the 18th century was carried in ships such as this heavily armed East Indiaman.



5 Trading horizons widened in the 18th century as European contact with hitherto exotic countries became more regular. Tea plantations in China were developed to meet a taste for tea in Britain and

an extensive trade also grew up in silk, porcelain and spices. Although China limited European influence to specified trading centres, these provided a foothold that was extended in the next century.

6 Speculation, greed and dishonesty were caricatured by the satirist William Hogarth (1697-1764) in 1720 when the South Sea Company, upon which heavy speculation had centred, collapsed and led to a

change of government. Financial and credit institutions in the 18th century were often unstable partly because governments were apt to draw on them for credit and also because investors panicked easily.



7 Spanish financial institutions, established in the 16th century, shared in the great expansion of European trade in the 18th century. This deposit certificate, dated 1759, is from the Real Compania de Comercio de Barcelona.

8 The Hudson's Bay Company whose Fort Garry, Manitoba trading post is shown here, was founded by the British in 1670 to open up a lucrative trade in Canada supplying Europe with furs, timber and salted fish. Simultaneously the

colonists at Albany and New York were extending trade with Indians. France was so active in the Canadian trade but lost its share in 1763 when it was defeated in the Seven Years War and thereafter surrendered control of Canada to Britain.



British colonial policy in the 18th century

British exploration overseas began in earnest in the sixteenth century and the foundations of the Thirteen Colonies in America were laid in the reign of Charles II (1660–85) [1]. Nevertheless the modern British Empire is usually dated from the Treaty of Utrecht (1713). The treaty gave Britain some minor gains in the Caribbean, France yielded its claims to Newfoundland and Nova Scotia, Spain ceded Gibraltar and Minorca to Britain and, most important, transferred to it the *asiento*, giving Britain the right to furnish slaves to the Spanish colonies and to send one ship a year to trade in those colonies.

Anglo-French rivalry

For a century the power of Spain had been on the wane. After 1713 France and Britain were the great rivals and during the next century a series of wars between the two nations, ending in Wellington's victory at Waterloo (1815), raised Britain to the rank of the world's dominant colonial power. In the eighteenth century it was understood that trade was power. The Anglo-French wars were fought to win control of the world's

trade, especially the highly profitable trade in slaves and sugar.

The eighteenth-century empire was based on the "triangular trade". British ships carried manufactured goods to Africa, exchanged them for slaves [9], sold those in the West Indies and the southern American colonies, and returned home with cargoes of sugar, tobacco and raw cotton. By 1750 hardly a trading or manufacturing town in England was not connected with the trade. Between 1670 and 1786 more than two million slaves were transported from Africa to British colonies.

The imperial economy was run on the principle that the colonies provided raw materials and accepted in return manufactured goods from the home country. This system was strictly maintained by the Navigation Act, passed in 1660, which required that trade between Britain and the colonies be carried by British-built ships manned by British crews. Produce going from the colonies to foreign parts had first to pass through a British port. This trade with the protected market of the American colonies was impor-

tant, too, to British industry, which had to seek new outlets after the colonies won independence. It also hindered the growth of colonial industry and thus encouraged the American demand for independence.

Defeat of the French

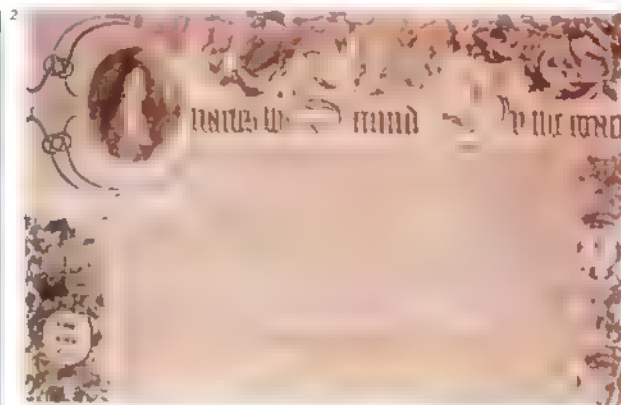
Before the American Revolution began, Britain, led by William Pitt (1708–78) later Earl of Chatham, won a great victory over France in the Seven Years War (1756–63). The war was fought to gain two aims: supremacy at sea and the capture of French trading posts, and it spread over Europe, India, the West Indies and Canada. Wolfe's victory at Quebec (1759) secured Canada's fish, fur and timber for Britain [2]. Eyre Coote (1726–83) and Robert Clive (1725–74) won victories in India which brought Bengal under the rule of the East India Company.

At the Peace of Paris (1763) the French sugar islands – Guadeloupe and Martinique – were returned to France, and Cuba to Spain in order to satisfy the West Indian planters who feared lower prices from an increased sugar supply. But the war achieved one great

CONNECTIONS

See also

1 The presentation of the first pineapple grown in England to Charles II is an exotic example of the change in British eating habits that followed the colonization of the New World. Maize, which has a yield ten times higher than wheat, the potato which thrives in poor soil and made possible Ireland's population explosion, the kidney bean and pumpkin were all introduced into Britain in the late 18th century, but it was not until the 19th century that their widespread cultivation brought about any significant improvement in the diet of the peasantry. In this period the colonies were intended to benefit the mother country rather than become independent economic entities.



2 British interests in Canada in the 18th century were mostly in the hands of chartered companies. The largest of these was the Hudson's Bay Company, whose founders were given a royal charter by

Charles II in 1670. Canada provided furs, fish and, most important, timber to build warships for the navy. But from a commercial point of view the country was insignificant compared, for example, with the

Sugar Islands. From 1762 to 1776, the value of British imports from Grenada alone was eight times that from Canada, whereas exports from Britain to Grenada were double the value of those to Canada.



3 An English fleet attacked Portobelo, a Spanish port on the Colón peninsula of Panama, in 1739. Spain was declining as a colonial power by the mid 17th century and Britain was anxious to ensure that France, the chief rival for control of the

Spanish dominions, did not gain control of the most important Spanish colonies. The import of bullion from the New World had mostly stopped by this time, sugar was the valuable crop for which the European nations were struggling in the Caribbean.

4 New Yorkers pulled down the statue of George III, symbolizing their revolt against Britain. But the loss of the American colonies meant merely a reorientation of the empire towards India, and British trade with the USA itself soon grew



result. It deprived France of huge markets in Canada and India and, by making those places British, provided scope for the industrial expansion of Britain. Without India, the cotton industry of Lancashire would not have had the market to sustain its spectacular growth between 1780 and 1820.

Britain and India

In 1776, the very year that the American nation was born, British control over India was tightened. At the beginning of the century there were no more than 1,500 English in all of India – traders and their families concentrated in the ports of Madras, Calcutta, Surat and Bombay. They were concerned only with making money and were not interested in penetrating inland nor in the destiny of Britain to rule over a native population. But conflict with the French, who had established themselves at the ports of Pondicherry and Chandernagore, was endemic throughout the first half of the century. In 1754 royal troops were for the first time sent out to assist the private armed forces of the East India Company.

At the end of the Seven Years War Britain had won supremacy in India. But the area was still under the management of the East India Company, which steadily tightened its grip on Bengal, collecting taxes and administering justice. The wealth that it extracted from the Indian peasantry [5], and the severity of its judicial administration aroused criticism at home and led to the great political scandal of the century, the impeachment of Warren Hastings (1732–1818) [6]. It also produced the India Act of 1784. By that date control of Bengal had, under the governorship of Charles Cornwallis (1738–1805) and Richard Wellesley (1760–1842), been extended over most of the subcontinent. It was in these circumstances that the power of the East India Company was curtailed by making it responsible for the administration of the whole of India jointly with the Crown department, the Board of Control.

France made one last, heroic attempt under Napoleon to regain its position as the world's leading power. This ended with Wellington's victory at Waterloo in 1815.



The port of Bristol prospered from having almost a monopoly of the lucrative West

Indian slave trade during Welpole's administration. With a population of about

50,000, it was after London, the second largest town in 18th century Britain.



5 Some Britons made huge fortunes out of their service with the East India Company. These "nabobs" lived ostentatiously in India and at home bought seats in Parliament to influence policy.

6 The impeachment of Warren Hastings for corruption and mistreatment of natives when he was governor of Bengal (1772–85) began in 1788. The trial dragged on for seven years and ended in Hastings' acquittal.



7 Gibraltar, first occupied in 1704, became a British possession by the Treaty of Utrecht (1713). Spain joined France and the USA in the war against England in 1779 and besieged the

colony for four years. George III tried to barter Gibraltar for Spanish colonies in America, but by the Peace of Paris (1763) Britain gave up East and West Florida to Spain and retained Gibraltar.

8 Penal settlements were set up in the new colonies of Australia in the late 18th century. The first convicts were sent to New South Wales in 1788 and to Van Diemen's Land (Tasmania) shown here

in 1803. Transportation was generally for life, but it could often allow the convict to establish himself in the colony; at the time there were more than 100 offences in England that could bring the death penalty.



9 Commemorative medallions, such as this one by Josiah Wedgwood (1730–95), were struck to encourage the abolition of the slave trade in the British Empire. This took place in 1807 and resulted partly from an evangelical campaign by William Wilberforce (1759–1833) and partly because British sugar planters wished to stop the flow of slaves to their French rivals when their own plantations were at their maximum production and could survive without the import of more slaves.

India from the Moguls to 1800

In 1206 Muhammad of Ghur destroyed the Rajput princes at Tarain. In the next ten years the Muslims overran the Ganges plains and founded the Sultanate of Delhi (1206). This marked the beginning of Islam's long dominance over Hindustan (northern India) which survived into the 1700s and created an entity that was distinct in the Islamic world.

The three centuries that followed saw the rise and fall of dynasties – the Turco-Afghans, Khaljis, Tughluks, Sayyids and Lodis – under which the Delhi Empire sometimes extended as far as the Deccan and the south coast of India under the megalomaniac Ala-ud-din Khalji or Muhammad-bin-Tughluq (the greatest of the sultans) and sometimes contracted into the narrow regions around Delhi and Agra (as it did under the Lodis) [2].

The regions continued to challenge the centre, invasions from the north (of which Timur's sack of Delhi in 1398 was the most atrocious example) still threatened the empire, and Delhi remained unable to dominate the Deccan.

Two new forces, however, were to alter the old patterns: Mogul rule and European

expansion. In 1526 Babur (1483–1530) driven from his mountain stronghold in Firghana, crushed the Lodis at Panipat and established the Moguls in Delhi. In 1498 the Portuguese explorer Vasco da Gama sailed into Calcut, the precursor of other seaborne powers from Europe who in time were to be the heirs of the Mogul.

Mogul Empire

The great Mogul rulers – Babur, Humayun, Sher Shah and, above all, Akbar [3] and Aurungzebe [4] – brought more of India under one empire than any ruler since the time of Ashoka in the third century BC and gave it more sophisticated administration than it had ever possessed. But the Great Mogul (Mogul), sitting on his peacock throne, surrounded by his great entourage of courtiers, concubines and slaves, his vast numbers of elephants and camels, and backed by his 200,000 cavalry, had built an empire on a fragile base. Mogul rule was the rule of foreigners and it was expensive. Built by conquest, it could not be sustained by force alone. Despite all the trappings of

imperial power, the army and the centrally controlled military bureaucrats (the *man-sabhadars*) the Moguls were forced to come to terms with their Indian subjects. This meant they had to give reasonable freedom to the magnates who actually controlled the land. They had to tolerate Hinduism and above all they had to avoid meddling too much in local affairs. All this qualified the notion of Mogul power – more overrule than real empire – and helps to explain the decline of the Mogul Empire [6].

The problem of revenue

Like all land empires in pre-modern times, the fundamental difficulty the Mogul rulers faced was how to raise revenues from limited sources, while retaining the co-operation of local notables (the *zamindars*). One obvious device was to extend the empire, but, as Aurungzebe discovered more conquest meant more expense. Another was to try to extract more land revenue from their subjects, but in the end the Moguls lost the co-operation of the local notables, who were squeezed from above and resisted by the



1 The ruins of the fortress and city of Tughluqabad near Delhi are an example of the reckless manner in which Indian fortifications were made and unmade by rulers who sought to commemorate them

themselves by building new capitals. Constructed between 1321 and 1323, Tughluqabad was soon abandoned by Muhammad Tughluq Shah in favour of Deogir, ostensibly because of bad water

2 The Sultanate of Delhi at the death of Humayun (1326) and, 100 years later under Muhammad bin Tughluq (1325–51) when it reached its greatest extent are shown on the map. It indicates that

Muslim dynasties had dominated northern India for centuries before the Moguls and had made attempts, apparently only temporarily successful, to dominate the Deccan and the south of India



3 Akbar (1556–1605) – the most celebrated Mogul emperor – was the almost exact contemporary of Queen Elizabeth. He vastly expanded the Mogul's territories, gave them an efficient system of government and encouraged

new sources of work in his effort to conciliate his Hindu subjects and to stamp out Muslim bigotry; the emperor tried, but without lasting success, to create for India a new religion reconciling the different beliefs



4 Under Aurungzebe (r. 1658–1707) the Mogul Empire reached its greatest extent from Kabul to the Cauvery. But the empire he bequeathed did not survive much beyond the five years of his son's reign. The seeds of disruption always present

were germinated by his religious intolerance: he alienated the Rajputs, the military prop of the empire, at great cost he conquered but failed to integrate the Deccan; he neglected Hindustan and fought the Marathas in the south

5 The Red Fort at Delhi, built by Shah Jehan (1628–1666), was surrounded by massive red sandstone walls 22 km

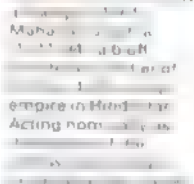
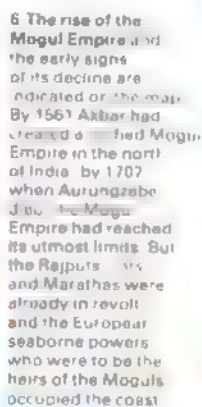
(75 ft) high and enclosed a complex of palaces, gardens, military barracks and other buildings. The fort, like many

other masterpieces of this reign, including the Taj Mahal, illustrates the splendour of Mogul rule in India



By the time William Pitt (1759-1806) and Henry Dundas (1742-1811) began to think of an Indian Empire as part of the swingeing eastwards of British expansion, the East India Company had already become the heir of the Mogul.

This was the background to the territorial rise of the British-owned East India Company. The company had gone to India to trade not conquer. Throughout the eighteenth century its directors protested that commerce, not dominion, was their aim. But by the mid-eighteenth century the British

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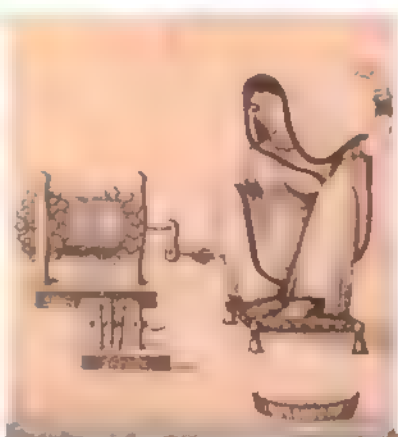
giving them artillery and recruiting Muslim and Jat soldiers and European officers in his service—one of whom he is entertaining here. His power was fragile because his kumhars lacked the



**7 The English settle-
ment at Fort St
George in Madras
was one of the earliest
in India set up in
1639. The struggle
with the French for
mastery centred upon
the south and the
fort was crucial**



10 The East India Company - fortunes
In the late 17th and 18th centuries were built upon the export of hand-loomed textiles throughout India and the East Indies. The 19th century saw the decline of village spinning and weaving and it became the main market for Lancashire goods. In the 20th century handlooms used the hand-loom.



Indian art: the Mogul age

The Muslim conquests in India in the twelfth century brought about a fundamental change in the art of the subcontinent. The invaders imposed a foreign style – Persian – upon the country. The new royal patronage encouraged the survival of secular art and there was a systematic attack on religious art. Before the invasions the royal court had patronized art from religious establishments. Afterwards there was far more secular art.

The contrasts with Islam

There could hardly be a sharper contrast than that between the religious monuments of the Hindus, Buddhists and Jains with their heavy forms and exuberant figure sculpture and the light, airy mosques of Islam with arcades, domes and slender towers [3]. These mosques were without sculptured figures but decorated with disciplined floral and geometric ornaments carried out in bright colours, either flat or in low relief. The floors were often covered with carpets and this helped to foster the Indian carpet industry which, as with other crafts, began with a marked Persian influence but eventually

developed its own national style. The same architectural idioms that applied to mosques were used in the erection of other buildings. An important technique of surface decoration consisting of patterns of inlaid coloured stone [6] is similar to Italian *pietra dura* and may have been imported from the West.

The independence of some cultures within the area of Muslim influence is shown by Jain painting, which developed as a form of manuscript illumination [1]. This painting is quite distinct from the more naturalistic wall painting at Ajanta that preceded it. The Jains adopted a highly stylized flat and decorative form that made use of bright colours, particularly red, blue and gold. A characteristic trait is the use of wiry, angular figures, each having the head in three-quarter front view with the farther eye protruding beyond the line of the face.

A studio system set up

The establishment of the Mogul dynasty in northern India created conditions under which Muslim art was able to flourish. The emperor Akbar (1542–1605), who was an

enlightened monarch, expanded the studio system set up by his father in which Indian painters had worked under the supervision of two Persian painters. This arrangement together with a prevailing Persian taste imposed a strong Persian influence on painting at the Mogul court. Under Akbar's patronage, however, a style quickly evolved that was unmistakably Indian, showing a refined naturalism and the use of rich colours to impart vigorous movement [2].

In the early seventeenth century an interest in portraiture and natural history (perhaps under Western influence) was added to heroic and mythological subjects. A sense of serene contemplation took the place of violent motion; it was coupled with a simpler, more subtle sense of composition and deeper psychological insight. This continued into the reign of Shah Jehan (1629–58). [Key and 4] but while the high standard of technique remained, a stiffness of execution inhibited the former supple spontaneity. Under Aurangzeb (1658–1707), Mogul painting declined – a trend that, in general, continued almost uninterruptedly.

CONNECTIONS

See also

1000 Years of Indian Art
The Art of India
The Art of Islam

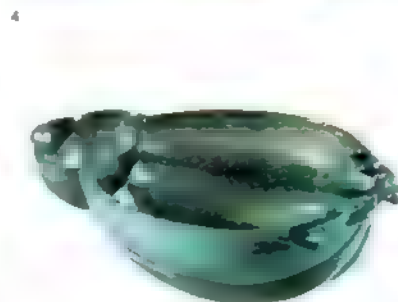
1 This Jain religious diagram (*yanttra*), of which a detail is shown, was painted in Gujarat in west ern India in 1447. It makes no attempt at realism since its purpose was not primarily aesthetic; such considerations were subordinated to the stimulation of religious ideas through the use of traditional artistic forms. Jainist paintings often took the form of manuscript illuminations made on palm leaves, even after the introduction of paper in the late 14th century.



2 The *Annals of Akbar* (*Akbar nama*) c 1600, illustrates the festivities that marked the birth of Prince Salim at Fatehpur Sikri in 1569. Under Akbar Indian painting absorbed the Persian style and became unquestionably Indian. Attentive to detail, its bright colours and agitated composition produced pictures that were like mosaics but seemed to be in constant movement.



3 The Qutb Minar at Lalkot, Delhi was built c 1230 with later additions. As well as being a minaret it also served as a watch tower and war memorial. It is a monument to early Islamic architecture in India since the minaret is one of the more obvious characteristics of a mosque. In this case the mosque was constructed partly of material from a nearby ruined Hindu temple.



4 This carved jade wine cup in the form of a gourd bears a legend indicating that it was made for the Mogul emperor Shah Jehan in 1657. It was during his reign that Mogul sumptuousness reached its zenith, represented by the *Ta*, *Mahal* and the pea cock throne. The naturalism of the cup is entirely Indian, showing the emancipation of Mogul art from that of Persia.

In the Deccan a style similar to that farther north – but somewhat modified by pre-Islamic elements – continued during the eighteenth century and produced, among other subjects, illustrations corresponding to musical modes (scales). To the northwest in Rajasthan, a large number of schools developed under the patronage of local courts of which those at Mewar, Bundi, Kotah, Bikaner and Jaipur are probably the best known. Their style was characterized in the seventeenth century by emotional intensity and in the eighteenth century by the vivid use of bright colours and an acute sense of drama. Under similar patronage, but below the Himalayas in the hill states of the Punjab such as Kangra and Guler, several schools arose that exhibited a marked individuality of style. Known as *Pahari* (meaning “of the hills”) paintings, these pictures took as their subjects romantic themes found in Hindi and Sanskrit poems such as the *Gita Govinda* of Jayadeva. This epic dating from the twelfth century recounts the amorous adventures of the Krishna, such as those describing his love for Radha, his favourite *gopis* (milkmaid).

The adventures are admirably illustrated in the *Pahari* miniatures, which convey the delicate passion of the poem by the expressive use of line and subtle colour effects [5].

The decorative arts

Under the Moguls decorative arts flourished as an aspect of the ostentatious luxury of the court and minor rulers. Intricately wrought gold and silver work was produced as well as jewellery (for men and women) set with diamonds, pearls, rubies and other precious stones. Vessels and other objects such as rings and dagger hilts were carved in rock crystal and jade [4] and were also sometimes inlaid with gold and gems. In addition to embroideries, sumptuous textiles were woven – velvets, brocades and silk fabrics.

In southern India, Hindu traditions in decorative art generally held their own in spite of Muslim influence from the north, but they did not remain entirely unaffected. This resulted in a style, best illustrated by some superb ivory carvings [7] that made use of tightly controlled organic motifs combined with figures sometimes in erotic scenes.



The Mogul emperor Shah Jahan looks at a piece of jewellery in this portrait (c. 1618) that reflects most of the characteristics of post-Muslim conquest Indian art. Opulent, tender and fastidious, it glorifies the individual. It records also the name of the artist (Abu l Hasan), who earlier would have been anonymous. Although some attempt has been made to achieve a likeness, the result is formalized and without character. The floral background, in which plants are treated in a naturalistic but gem-like way, reflects the interest in flower painting that was fashionable during this period.



5 Divine love as an ideal for human love was a popular theme in Indian, as well as European art, as seen in the poetic paintings of Krishna and Radha. In this picture from the Punjab hills their love is depicted with a poignant tenderness. The complete painting follows the Indian convention of showing two or more related events within the same frame; above the lovers' meeting, shown here, there is another picture of their forest walk.



6 A mausoleum at Agra, erected in 1628, is constructed of marble inlaid with patterns of coloured stone. It shows the Mogul interest in surface decoration and linear movement.



7 Ivory carving has had a long history in India. It was probably most fully developed in the south, as this 18th-century comb from Mysore showing Gaja Lakshmi, goddess of fortune and prosperity, magnificently reveals.

8 Cotton paintings ("chintz") on an 18th-century coverlet combine Indian technique and European designs, such as engravings of ornamental motifs. Hand-painted at first, they were later block-printed.



China from 1368 to c. 1800

The Ming or "Brilliant" dynasty (1368–1644) was founded by a Buddhist peasant who became leader of the rebel bands that overthrew the Mongol rule. He made his capital at Nanking and gave himself the title Hung Wu (reigned 1368–98). Under the new emperor the government reverted to the Tang system of Confucianism: taxes were reduced and peasants were encouraged to work harder by being allowed to keep the land they reclaimed. The empire expanded taking in vassal states which included Annam and Siam. Maritime expansion also occurred and under the able command of Admiral Cheng Ho fleets of exceptionally large Chinese vessels made seven expeditions between 1405 and 1433 to places as far away as Sri Lanka, the Persian Gulf and parts of Africa. The ships carried merchandise and Cheng Ho was able to establish trading relations with about 30 ports.

Protection of the homeland

At home the government was determined to defeat further invasions from the north. The Great Wall was repaired, many towns were

fortified and Nanking was surrounded by a wall 32km (20 miles) long and 18m (60ft) high. This "closed door" policy of the Ming was similar to that of the early Sung period which had also established Chinese rule over the Middle Kingdom after a period that had witnessed foreign intervention.

In spite of this attitude the Ming were to see the arrival of Europeans from the south. The Portuguese established a settlement in Macao and were followed by missionaries.

The Ming built numerous palaces and splendid tombs, the most famous being the Imperial Palace in Peking [1] and the tombs of the emperors north of the city [3, 4]. In 1958 that of the Wan-li emperor was opened to reveal three lacquer coffins containing the bodies of the emperor and two of his wives.

The end of the Ming dynasty

In spite of all the elaborate precautions for security, the Brilliant dynasty reached its end when northern barbarians, in this case the Manchus, entered north China. They came at the request of the Ming commander who sought their help to unseat a rebel, Li Tzu-

ch'eng, who had made himself master of Peking. Rather than submit to humiliation the last Ming emperor hanged himself and the rebel emperor in his turn was overthrown by the Manchus whose leader, Fu-lin (1638–61), proclaimed himself emperor and set up the Ch'ing or "Pure" dynasty.

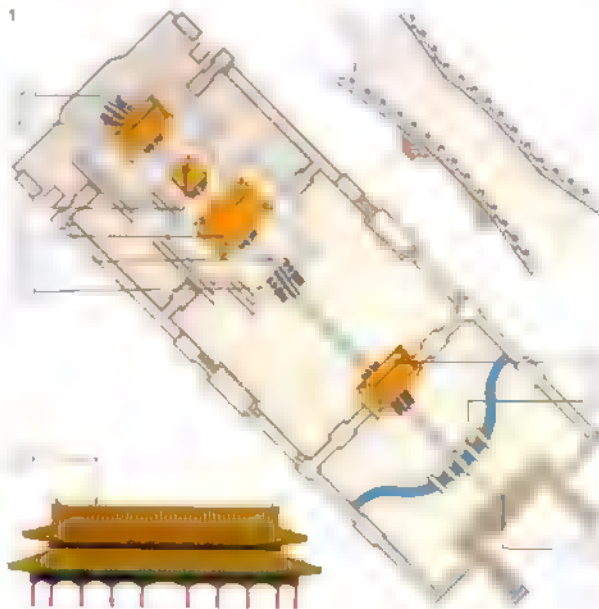
For a century and a half the Manchus governed wisely, they provided the country with domestic prosperity and extended its boundaries beyond all previous limits. The emperors ruled as conquerors and skillfully protected themselves against rebellion by instituting a system of banners. These were military and administrative divisions in which the people were systematically registered, taxed and conscripted.

The Manchus were unable either to read or write and accepted the Ming examination procedure for the selection of civil service officials. They were careful, however, to forbid the Chinese to hold office in their native provinces and they also divided responsibility in such a way that the officials were obliged to keep a check on one another. The Manchus were more sophisticated than

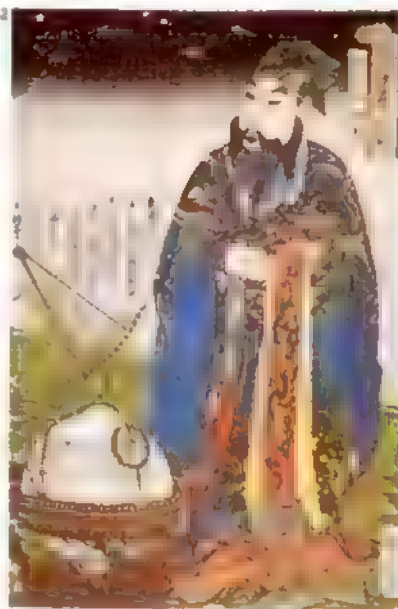
CONNECTIONS

See also

1 The Imperial Palace in Peking was the seat of 22 Ming, and Ch'ing emperors after Peking became the capital in 1421. Begun in 1406, the palace now covers 720 000m² (7 750 000 sq ft). The palace is an assemblage of imperial buildings; the most important (shown here) containing the ceremonial halls. The principal entrance is through the Meridian gate house [1] leading to the Golden Water River with its five marble bridges [2]. After the second gatehouse [3] was the first great hall [4], which holds the imperial throne. The halls [5, 6] stand on the marble three-tiered Dragon Pavement [7] with triple staircases [8].



2 Chinese astronomers were the most persistent and accurate observers of celestial bodies anywhere before the Renaissance. The importance of the calendar for a primarily agrarian society and the state interest in astrology meant that astronomy was of central importance in their lives. In contrast with European scientific work was not a private concern and astronomers often worked from the Imperial Observatory in Peking. Their observations like the work of scientists in many other fields, were included in large encyclopedias that were compiled and published at the instigation and sole expense of the state.



3 The tomb of the Ming Wan-li emperor (1573–1620) is situated at the foot of rugged mountains to the northwest of Peking. The complex is approached by an avenue lined with impressive stone sculptures of guardian animals, soldiers and officials. Work on the tombs began in 1584 and took four years.

4 The throne of the Ming Wan-li emperor was placed in his tomb. Ming emperors generally enjoyed an unprecedented degree of power. Ultimately the Ming dynasty fell to the invading Manchus who seized Peking in 1644, but already during Wan-li's reign internal dissent and foreign attacks threatened Ming power.



the Mongols and proved to be neither barbarous nor destructive, but in fact grew to admire Chinese culture. One of their first acts was to request a group of scholars to write a history of the Ming dynasty which was followed by a vast encyclopedia, the *Ssu-k'u ch'uan-shu*, comprising 36,000 volumes begun in 1772 and completed in 1781.

The influence of the Manchu

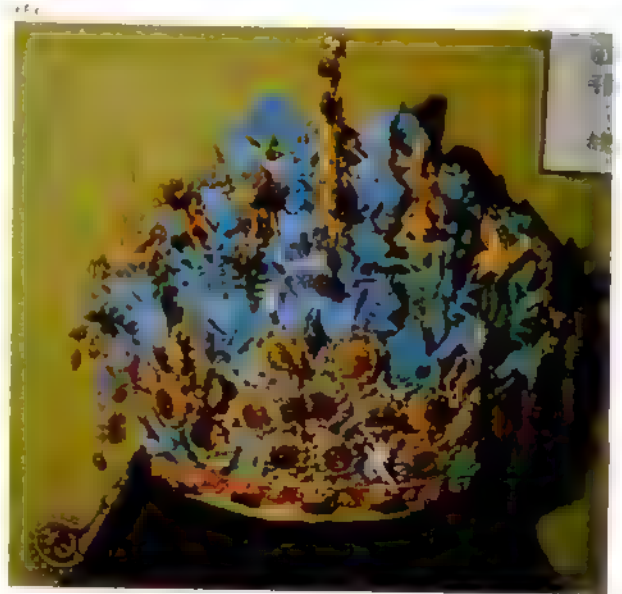
Abroad Manchu authority spread to Manchuria, Mongolia, Tibet and Turkistan. During the Ch'ien Lung era their armies entered Burma, Nepal and Annam [6]. As the empire grew in size and wealth foreigners increased their pressure to trade with this huge untapped territory. The Jesuits, who had been accepted during the Ming dynasty, were now followed by other Catholic orders from Europe and before the end of the seventeenth century Franciscans, Dominicans, Augustinians and members of the Society of Foreign Missions in Paris had established themselves in several cities in the interior.

European merchants did not penetrate China as readily as the missionaries, but they

persisted in their efforts and eventually limited trading facilities became available for the French, British, Dutch and Portuguese. In 1784 the first of many ships from the United States arrived. By the middle of the eighteenth century British trade, the monopoly of the British East India Company, had outpaced all others [8].

Chinese silk, tea, cotton and porcelain were in endless demand in Europe. However, business could be carried out only through selected groups of Chinese merchants, the Co-Hung. There were no fixed tariffs, a policy that increased corruption amongst officials. The Chinese were forbidden to teach the foreigners their language and foreigners had to submit to Chinese law in Chinese courts, where the Chinese with their belief in group responsibility held the foreign communities liable for the misdemeanour of any of their members.

Such conditions soon became impossible. The Western trading countries therefore sent missions to Peking [5], which began the lengthy process of bringing China out of her diplomatic, cultural and economic isolation.



This Ming Imperial crown, decorated

with a phoenix, is indicative of Ming

wealth and their patronage of the arts

5 The first official British mission to China was made in 1792 by Lord Macartney (1737-1806) and came at a time of demands for increased trading rights as the British and other foreign

powers pressed for a foothold. Already the British East India Company had a monopoly over the trade in tea. However, the mission was treated by the Ch'ien-lung emperor as purely diplomatic.

6 The Manchu Empire in 1800 covered a large area of central and South East Asia. But already European and Russian expansion in search of trade threatened this shaky conglomerate.

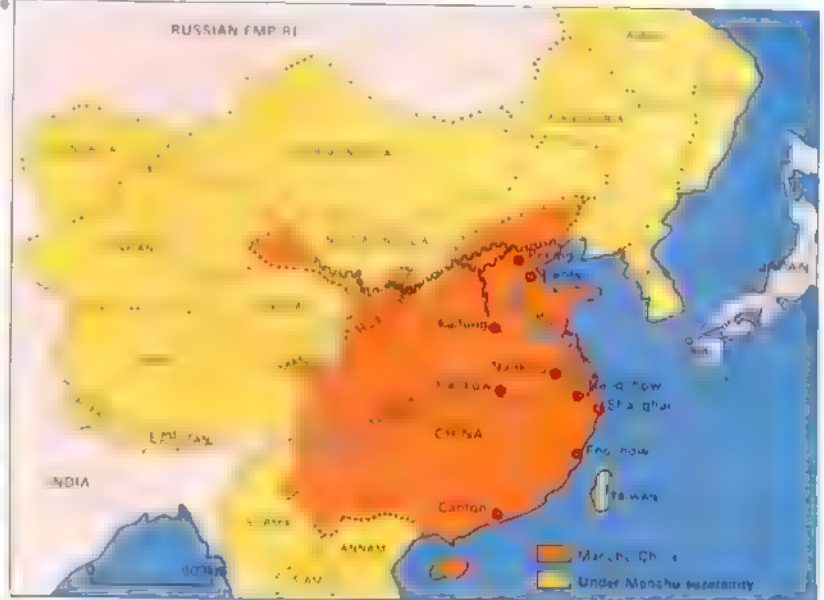


7 This Sinocentric map (c. 1800) shows China at the centre of the world, both

culturally and geographically, as a 'middle kingdom' surrounded by barbarians.

and China was generally self-sufficient and pursued a policy of aggressive

isolationism, believing that little was to be gained by contact with other peoples.



8 European ships moored in the port of Canton in the 18th century reflected the West's desire to trade with China. Western merchants regarded the China trade as an immensely rich prospect, but China refused to allow trading. From 1667 the

Portuguese had had a monopoly of trade with China from Macao until the Dutch began to trade but at tempt by the British East India Company in the early 17th century failed to gain official approval. The Europeans pressed for greater trading

concessions, but from the 1750s all foreign trade had to go through Canton and was strictly supervised by the state. British trade in tea grew during the 18th century and in the 1780s they began to smuggle in opium profitably from India.

Chinese art 1368 to the 20th century

With the establishment of the Ming dynasty, Chinese society, as reflected in the arts, underwent a renaissance. The style of the arts of the succeeding three centuries is reminiscent of the T'ang dynasty in its boldness and grandeur. The Imperial Palace (Forbidden City) [7] and the imperial tombs of Peking embody much of this style. The large scale of the buildings and the use of immense space in the layout of courtyards and processional ways show the confidence and flair of the designers.

The arts during the Ming dynasty

The applied arts also flourished, particularly during the earlier centuries of the dynasty. Carved lacquer of beautiful quality was made by masters in small workshops. By contrast the anonymous ceramic industry had grown to considerable production and was by now centralized on the great kiln area of Ching-te-chen, Kiangsi.

Added to the home market the overseas trade in ceramics was rapidly accelerating. The taste for decorated porcelain led to the development of techniques hitherto unex-

plored. First, the use of underglaze painting in cobalt blue was perfected through various styles [1], second, by the sixteenth century low-fired coloured glazes painted on top of the primary porcelain glaze and refired produced the increasingly popular polychrome decorated wares. Cloisonné enamels on metal bodies also produced rich effects. This technique, of much earlier origin, originally came from the Near East. The grandly simple jade carving is rare and it shows an affinity in style with early Ming lacquer work. In the later years of the dynasty there was a move towards elaboration exemplified by the use of inlay and onlay of semi-precious stones on both jade and porcelain.

The fine arts of the Ming reflect the tastes and position of the scholar classes. At the beginning of the dynasty a variety of styles of painting were practised. The court attempted to re-establish an academy on traditional lines. Painters such as Tai Chin (1390-1460) [2] served for a time but soon retired and became the centre of a group known as the Che School (centred on Chekiang). Using colour and a broad, wet brushwork they pro-

duced marvellously evocative genre paintings of country people and elegant landscape and bamboo compositions. Because of their early association with the fashionable court and its intrigues, the members of this school gained a reputation for slight, showy work.

The Wu School and its successors

The great rivals of the Che School were the Wu School, headed by Shen Chou (1427-1509) [3], a native of Wu Hsi. Painters of this group kept away from court and followed the great masters of Yuan, living as scholar literati and painting in an eclectic scholarly style. Shen Chou himself never took up official life. He was the first painter to use his own poetry as part of his painting and also to use figures in the composition in such a way as to invite the viewer to identify with the figure and so become directly involved with the painting.

Wen Cheng-ming (1470-1559) [4], Shen Chou's pupil, showed a certain decorative quality in his work, which typified a move that eventually caused concern to the purists. These scholars made an analytical and histor-

CONNECTIONS

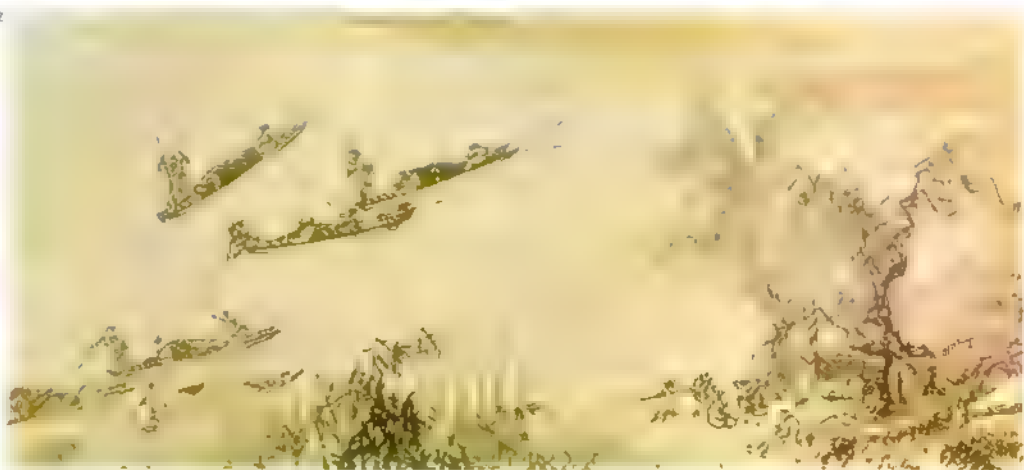
See also

100 4

1 White porcelain was made in a wide range of styles and decorated in cobalt and copper underglaze as well as large wares from

the 14th century which was made at Ching-te-chen, Kiangsi. Cut-through techniques often included an inner decorated vessel

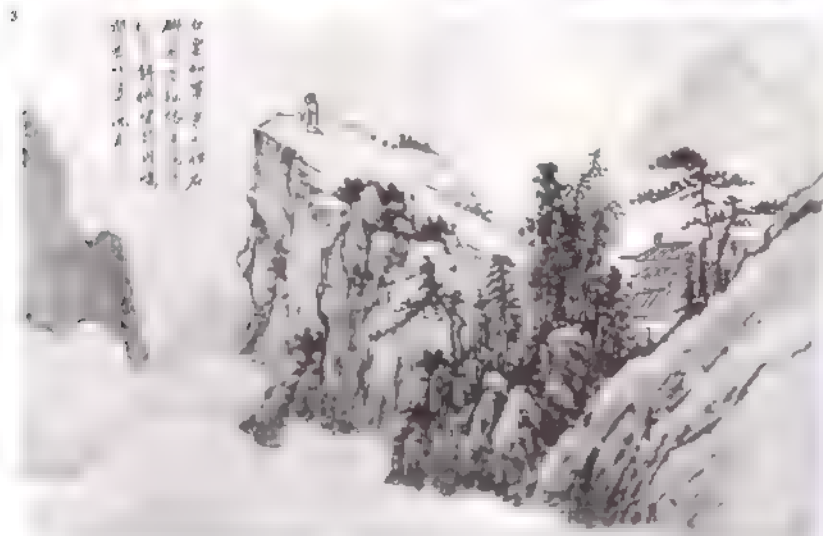
2



2 A native of Chekiang, Tai Chin became a court artist for a short time but he was banished to Hangchow where he painted his major

works. He is regarded as the leader of the Che School. This handscroll in ink and colour on paper is called 'Fishermen on the river'.

4



3 Shen Chou came from a scholarly family. He first followed the painter Huang Kung-wang but later

established his own simple style. This album leaf in ink is called 'Poet singing in the Mountain'.

4 Wen Cheng-ming was the head of a notable family of painters from Tsang Chou. His style was

both elegant and decorative and included the popular subject shown here of 'Bamboo and Epidendrum'.

ical study of painting that was intended to rectify what they saw as a trivialization. Their precepts and classification were a great influence on painters and critics of later periods.

The painters of the generation following the purist Tung Ch'i-ch'ang (1555-1636) [8] were mindful of his analyses and the four Wangs (men with the surname Wang, but not all related) are often regarded as being the followers of Tung. The two elder Wangs, Wang Shun-min (1592-1680) and Wang Chien (1598-1677), follow Wen Cheng ming and the later Wu School. They painted large eclectic landscape compositions but were also part of the general movement towards a high Romantic style that flowered in the eighteenth century.

Contemporary with the elder Wangs were Shih T'ao (1641-1720) and Chu Ta (1626-1705). Shih T'ao was by inclination a scholar-painter who relied a great deal on literary inspiration. He was an innovator in the use of ink, colour and brush. Chu Ta was an instinctive Ch'an (Zen) artist with an elegant brush style.

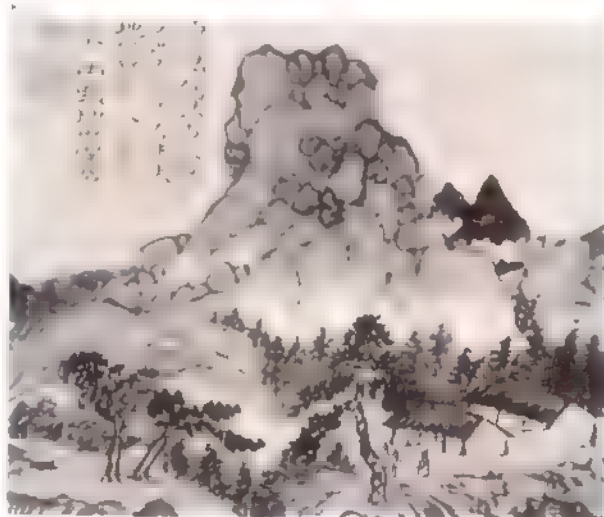
At this time a generation of Romantic

painters appeared. With the establishment of the grand courts of the Ch'ing, K'ang Hsi, Yung Cheng and Chien Lung, Romantic art was served by the European Jesuit painters led by Castiglione (Lang Shi-ning [1698-1768]), whose curious Italianate Chinese style was true *chinoiserie*.

Chinese art to the present day

In the seventeenth century, the newly wealthy towns of Souchow and Yangchow were the homes of an innovative group of painters known as the Eccentrics, who advertised their wares and painted for money. The eighteenth century saw a strong taste for archaism in all crafts. With the dawn of the nineteenth century both artist and patron seem to have lost confidence: painting moved slowly and hesitantly along the old paths of the seventeenth century.

Twentieth-century Chinese artists have been unsure of their direction and they experimented first with European and Japanese styles. Communism has re-directed the arts to serve political aims, so they have a dominant propaganda function.



An inventive artist in both techniques and subject matter, Shih T'ao was a late 17th century recluse who corre-

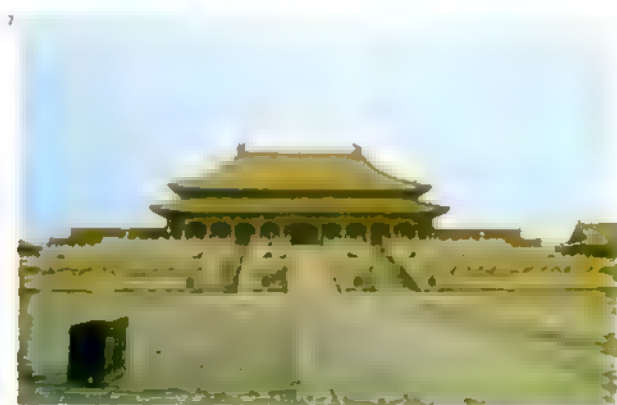
sponded with his contemporaries and was one of the most influential artists in his own and later generations. His

quite distinctive use of the surface texture of the paper as in this landscape in ink and colour is still being explored today.



5 Wu Ch'ang-shih (1842-1927) followed the broader ink style of the late 19th century as well as adopting the current subjects - birds and flowers.

6 Carved by Chu San-sung, in the 18th century, this bamboo brush pot was designed to hold a scholar's pens and brushes.



7 The Forbidden City, palace of the Ming emperors, is enclosed within a large, rectangular moated, walled compound. The central north-south axis is marked by a series of huge audience halls, each flanked by smaller halls and surrounded by large courtyards and tiered walks. The buildings are of gaily painted wood with yellow glazed roofs; the surrounding courts are constructed of white marble.

8 This calligraphy by Tung Ch'i-ch'ang (1555-1636) is strong and fine and typifies the Chinese scholar-painter's command of his art form. Tung was a theorist and historian who also painted landscapes and lighter works.

9 Fu Pao-shih (1904-65), one of the major Chinese painters of the 20th century, studied in Japan in the 1930s and was highly influential as a teacher at the Nanjing Academy of Arts. This is his



Japan 1185-1868

In 1185, following five years of civil war Minamoto Yoritomo ruled much of Japan from his headquarters at Kamakura. In Kyoto the emperor reigned, but effective power lay in the hands of the Minamoto house which had defeated the previous ruling family, the Fujiwara.

The new Japanese rulers

In 1192 the emperor recognized this new reality. Yoritomo was made shogun (general), as head of the military class, and his followers were rewarded with further rights in land at the expense of their defeated enemies. Some became military governors of distant provinces, others supervised tax collection on the estates of imperial courtiers. On these foundations Yoritomo created a practical and efficient administration which gradually but inevitably eroded the basis of imperial power.

This new power produced a new spirit and a new culture. Warriors (samurai) rejected the ceremonial of established Buddhist sects and turned to simpler, more austere, forms of religion. Zen temples were built in Kam-

akura. A new Buddhism was preached and the scriptures were translated into Japanese.

In 1221 this dynamic government defeated an imperial revolt against its authority. Fifty years later it overcame a greater challenge from Asia. In 1274 and 1281 the vast Mongol armies of Kublai Khan [1] invaded Japan but effective defences and the power of the "divine wind" (kamikaze) repulsed these expeditions.

In time jealousy and hatred of the Hojo grew and in 1333 Ashikaga Takauji joined Emperor Daigo II in destroying their power [3]. The emperor then tried to re-establish his authority but the Ashikaga resented their poor rewards and in 1336 Takauji drove Daigo II from Kyoto, replacing him with a puppet. Two years later he became shogun.

The long civil war

By 1467 the rising economic and military strength of the great provincial houses was uncontrollable. As the shoguns grew weaker civil war broke out and continued for a hundred years. In this unrest, Europeans first reached Japan and began to influence its

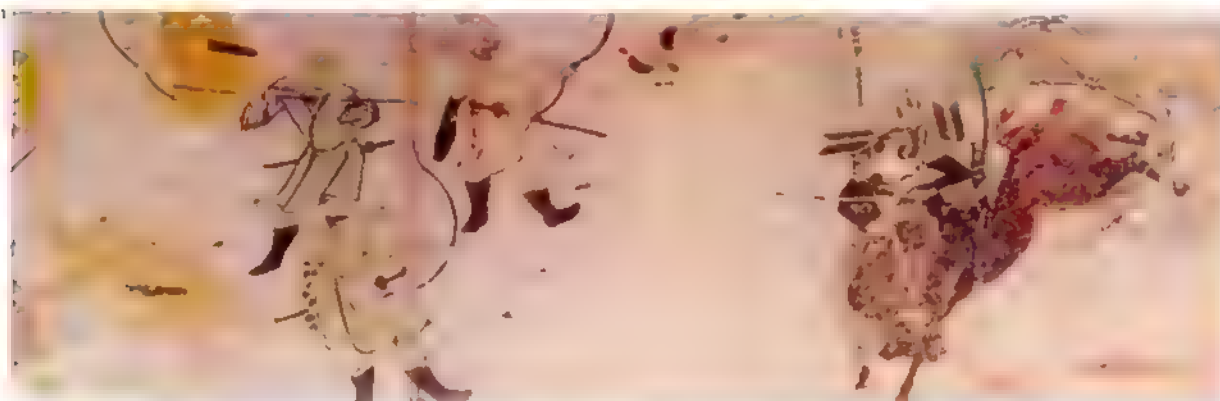
domestic politics. In 1543 the Portuguese arrived and soon Jesuits began to spread their missionary activities.

When Oda Nobunaga (1534-82) began the task of unification, religious and secular forces obstructed his advance. In 1571 he destroyed the temples of monastic armies and two years later extinguished the power of the Ashikaga line. In 1582 he was assassinated in Kyoto but his chief commander Toyotomi Hideyoshi (1537-98) continued his campaign. Soon Hideyoshi dominated Japan and threw his armies against Korea. His death ended these adventures and left Tokugawa Ieyasu supreme at home. Ieyasu officially became shogun in 1603 and sought to establish peace throughout Japan [2].

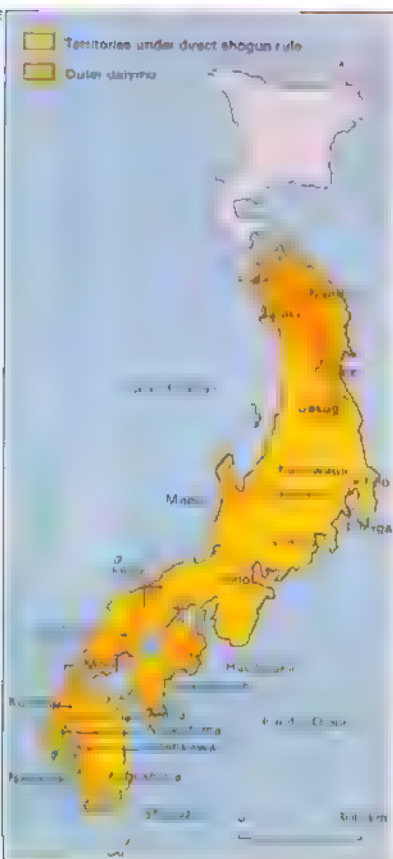
Like his predecessors Ieyasu re-measured lands and regulated taxes. He relegated his enemies to outer provinces and concentrated his allies in central Japan. Fortifications were controlled and spies recruited. Lords or their families were compelled to reside at his new capital of Edo (later Tokyo). Confucianism became the official ideology to create a comprehensive social philosophy from the

CONNECTIONS

East Asia



1 In 1274 Kublai Khan launched a force of almost 30,000 troops against western Japan, but violent storms drove his ships back to their bases. Seven years later a second expedition (shown here) landed in Kyushu. Well-organized resistance, stone defences and gales combined to repel the invaders. There were fears of a further onslaught but in 1294 Kublai Khan died and his preparations were abandoned.



2 Following his victory at Sekigahara (1600) Ieyasu re-drew the political map of Japan to reduce possible threats to his supremacy. Eighty-seven families lost all their lands. As a result the territory

of Ieyasu and his allies was increased and concentrated in central Japan. Traditional enemies were relegated to outer provinces. With minor adjustments, these boundaries survived until 1868.



3 Ashikaga Takauji (1305-59) supported the Emperor Daigo II in destroying the Kamakura military government. Later he drove the emperor from his capital and made himself shogun in 1338.

4 Tokugawa Ieyasu (1543-1616) was the son of a middle rank lord who rose to become political master of Japan. After serving as a successful general under Nobunaga and Hideyoshi he destroyed his

rivals at the battle of Sekigahara. In 1603 he became shogun and proved to be an astute and determined politician. He limited the power of the emperor and his regime continued until 1868.

Samurai code of conduct (bushido) and society was modelled on an agrarian ideal. Warriors were a privileged elite, farmers next in importance, craftsmen and merchants of lowest esteem. Ieyasu's successors developed his policies [5, 7]. They also suppressed Christianity and restricted foreign trade in the interest of political stability. A few Dutch [5] and Chinese merchants resided at Nagasaki but no Japanese could go abroad.

The nineteenth century

One result of the Tokugawa peace was commercial growth, undermining samurai power. On several occasions after 1700 the shogun's government tried to solve this problem by returning to the principles of Ieyasu. Austerity was encouraged and officials dismissed. More land was cultivated and townsmen were urged to return to their villages. Merchants made forced loans to warriors and censorship increased. None of these measures was successful for very long.

Parallel with this growing domestic crisis Japan faced increasing threats from the Western powers. At first foreign ships were

driven off and seclusion maintained, but this could provide no lasting solution. In 1853 Commodore Matthew Perry (1794-1858) led a US naval squadron to the Japanese coast [6] and demanded stores and an opening up of diplomatic relations. After a year's delay his requests were granted and agreements were made with other powers.

From 1859 the Western powers traded at Yokohama, Hakodate and Nagasaki and diplomatic contacts increased. The Tokugawa made more agreements with foreign powers but many Japanese feared colonization. Foreigners were murdered and warships brought destructive retribution. A sense of national crisis covered Japan. The Tokugawa built warships and cannons and began modernization [8]. Yet their measures seemed insufficient for national survival. For centuries the emperors had reigned, mainly as figureheads, from their court at Kyoto, now many turned to the emperor for inspiration and in January 1868 warriors from the western provinces restored his power [Key]. The Tokugawa era was at an end and the imperial age had begun.

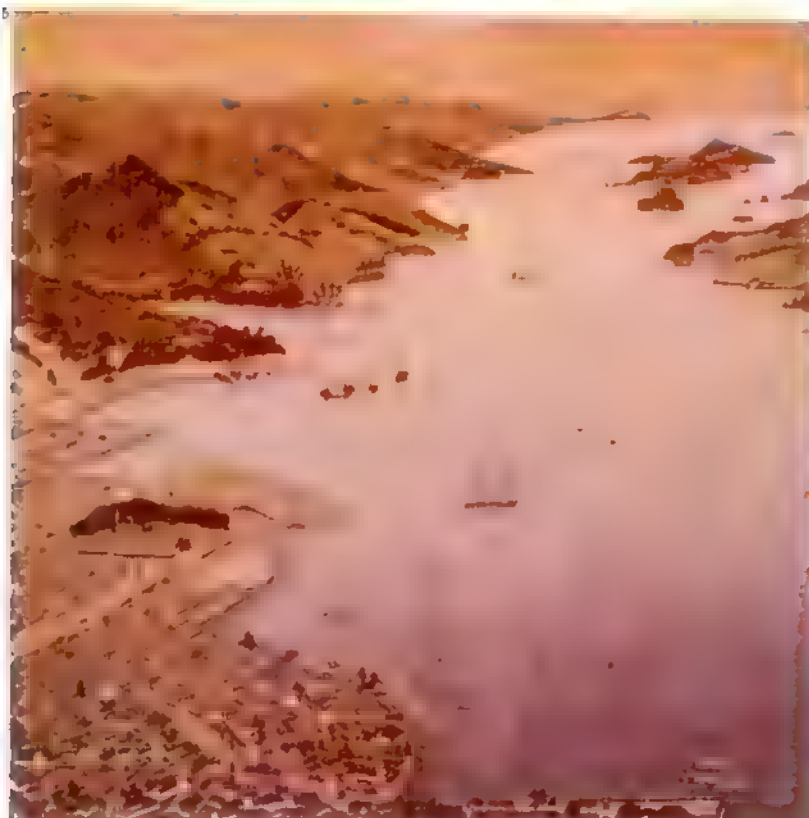
KEY



The Emperor Mutsuhito (1852-1912) aged only 16 at the time of the Meiji restoration (1868)

played an important role in symbolizing its legitimacy. In later years he was a focus for national

unity and supported policies of modernization. He moved his court to Edo, which he renamed Tokyo.



5 After 1641 under the Tokugawa regime all Dutch ships trading with Japan were confined to the island of Dejima, Nagasaki (shown here) and their wives and children were forced to leave the country. Throughout the centuries this small secluded group of Dutch merchants provided Japan's only link with the West and to Japan such vital information. Japanese scholars studied sciences from Dutch publications.

6 In July 1853 Perry's naval squadron arrived off Japan. The trade the Tokugawa shoguns had been reluctant to open up was successful but in 1854 Perry returned to sign Japan's first modern treaty.



7 The Tokugawa period 1600-1868 saw a growth in education and literacy. Village schools, such as this one at Okayama, gave the young of all backgrounds the education that the samurai had.

8 Following the forced opening up of Japan in 1854 the Tokugawa government feared a Western invasion and ordered the construction of this furnace at Nirayama to produce iron for the navy.



Subsaharan Africa 1500–1800

The appearance of a Portuguese fleet off the west coast of Africa in the mid-fifteenth century marked a new and decisive stage in the history of the continent: the beginning of a long and tumultuous relationship between Africans and Europeans. The Portuguese were followed by the Dutch in the sixteenth century and then by British, French and other Europeans a century later.

Complementary systems of trade

The many trading posts which these Europeans established on the coast, and linked to the Europe-based worldwide system of trade, complemented an existing trans-Saharan commercial network. This had been operating for at least 500 years and was forged between Arabic-speaking people from North Africa and black Africans living south of the Sahara. However, the European and trans-Saharan commercial systems were separated by the vast distances of the West African hinterland and never clashed.

A surprising feature of this period in view of these two commercial presences is the relatively little influence which these foreign

cultures had on Africa as a whole. Many Africans in the Sudanic belt had become Muslims in the 500 years of Arab trading in North Africa – a process that set up stresses in African societies and eventually provoked the Holy Wars of the nineteenth century. These states continued to look north to the Muslim world for their external contacts. Equally, some of the savanna and forest peoples began to turn to the Christian newcomers in the south for their contacts with the outside world. However, many peoples in western Africa, and nearly all of those of central and eastern Africa, were entirely outside the direct influence of either Arabs or Europeans until 1800.

The purely passing effect of foreigners is well illustrated by the history of the East African coast. Here Arabs had established trading settlements at favourable harbours on the coast and nearby islands – for example, Mombasa and Zanzibar [3]. These settlements were part of a large and prosperous Muslim trading system in the Indian Ocean, which at the end of the fifteenth century was taken over by the Portuguese. By

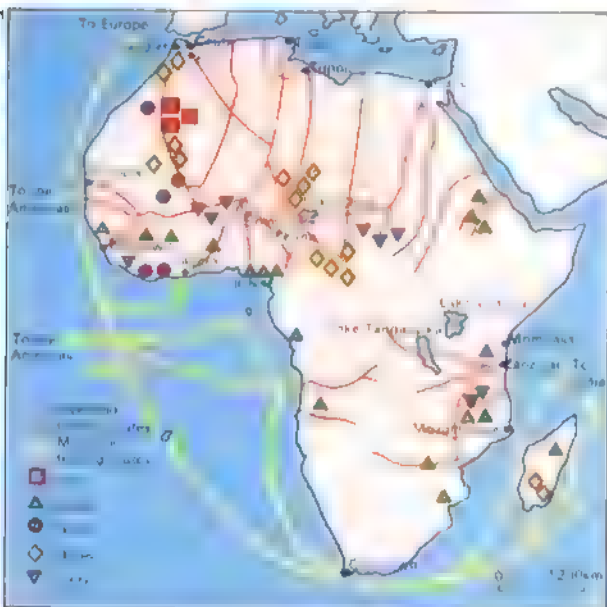
the end of the seventeenth century the East African settlements had reverted to Muslim control. Neither the Arabs nor Portuguese in all this time had any contact or influence with any but the peoples actually living on the coast, except in the Rhodesia/Zimbabwe area where gold spurred inland expeditions.

Human beings – “a most profitable trade”

When the Portuguese first arrived in West Africa, like European adventurers in the New World, they were interested in gold and luxury tropical products. But they and the Dutch, British, French and others who followed them quickly came to realize that there was only one profitable commodity in Africa – human beings [1]. The lands of South and Central America, the Caribbean islands and the southern parts of North America required large labour forces to exploit the silver mines and, more important, the tropical crops – sugar, coffee and cotton – growing there. Within a few decades the transatlantic slave trade came to dominate relations between blacks and whites in western and central Africa.

CONNECTIONS

See also



1 Although Africa was a major source of various goods, it was primarily the slave trade that established its link with the outside world as well as encouraging trade

routes from within it. There was a steady flow of slaves to Muslim lands but most were shipped from west and west central Africa for labour in the New World.

2 Before they were shipped to the New World slaves were assembled in barracks or “barracoons”, where they were treated much as any other freight for shipping

The slave trade was so lucrative that European traders made little effort to develop large-scale trade in other commodities until the 19th century.

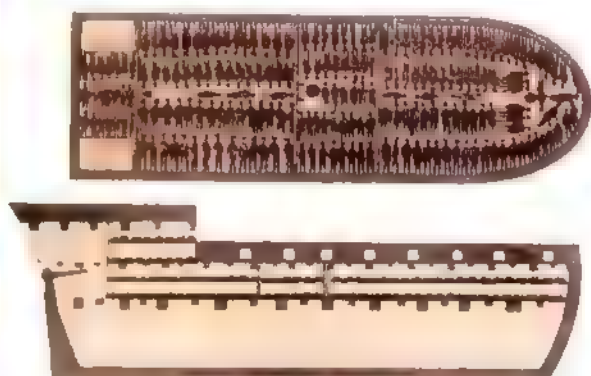


3 The great slave market at Zanzibar became the centre of Arab trading on the east coast after the Portuguese evacuation at the end of the 17th century. Here the Arabs traded with the native

rulers who raided and enslaved their weaker neighbours to exchange them for guns and cloth.

4 The inhuman disposition of a human cargo is shown on this plan of the Brookes,

a vessel of the late 18th century. The Atlantic crossing, the notorious Middle Passage, took a terrible toll of lives and was not as profitable as the sugar, cotton and tobacco carried back to Europe.



From 1481, when the first cargo in this barbaric trade was shipped across the Atlantic, until the early 1870s, when the slave trade finally came to an end, it has been estimated that almost ten million Africans arrived in the Americas – one of the largest migrations of peoples in history. The peak of the trade was the 50 years from 1760 to 1810, by which time most of the European nations had abolished the slave trade, during these years, over four million Africans were taken away from their homelands.

Most of the African slaves came from the inland regions – from Senegal right round the bulge of West Africa to the Angola region of west-central Africa. The African middlemen, who sold the slaves to the European "factories" on the coast [5], prospered from the trade, as did powerful raiding states such as Asante and Dahomey [6].

In the area of the Congo estuary and Angola, the Portuguese and their agents were more active in venturing inland in search of slaves. In the nineteenth century the East African slave-trading network, which up to then had been in Muslim hands,

was tapped to supply slaves to Brazil and Cuba, where slavery persisted longest.

There is no doubt that the slave trade much increased the level of violence among many African peoples. This is especially true of the Niger delta region, neighbouring areas of southern Nigeria, in the interior of Angola and, later in the period, in east-central Africa where Arabs controlled the trade. In a number of instances the resulting breakdown of social order led, ironically, to increased interference by the Europeans who were responsible for the violence in the first place.

Purely African cultures

During the 300 years from 1500 to 1800, in the areas of Africa unaffected by the transatlantic slave trade, societies were developing under their own momentum. New and powerful states emerged, such as Ruanda and Buganda (in the fertile lands between the great lakes of East Africa) and the states farther south, on the plateaus of central Africa. The kingdom of Monomotapa faced the Portuguese in the Zambezi valley and the Rozvi state dominated the plateau



Foreign influence – Muslim from the northern interior and European from over the sea – was a striking feature of African history between 1500 and 1800. African societies proved to be flexible but discriminating about these influences, a capacity reflected in their art. The kingdom of Benin, founded about 1400, was a rich source of outstandingly beautiful bronze sculptures. The figures shown here, Benin sculptures, were based on a tradition that was more than a thousand years older than the kingdom itself, but the artists managed to assimilate influences from Western culture without departing from this venerable tradition.

6 King Agaja (c. 1673–1740), the ruler of the Fon kingdom of Dahomey, was a just origin in the mid-

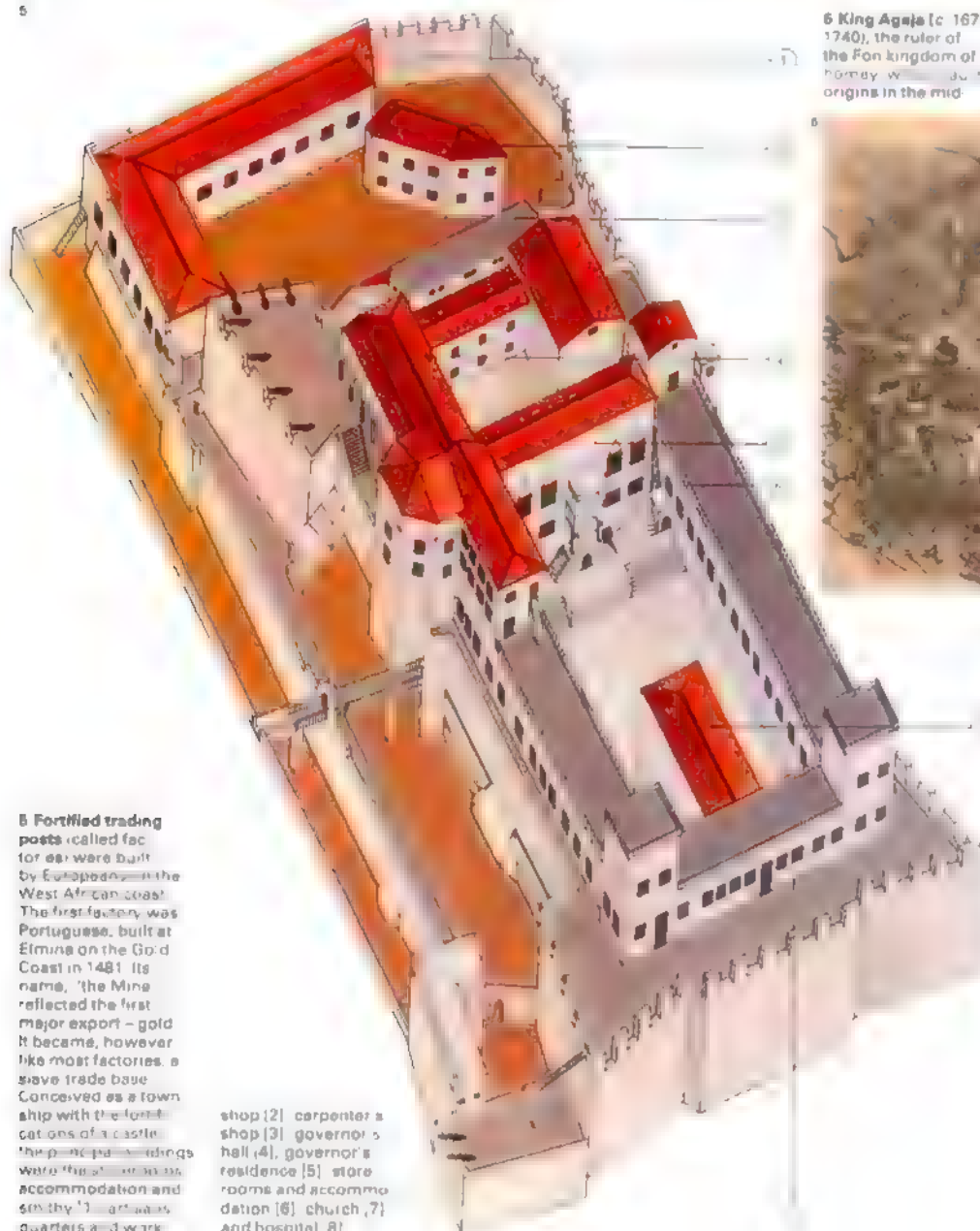
17th century can be seen in the way he was able to press many people into its service in

cluding these famous units of women who danced that were established the state system of the river.



7 Kano in the north of Nigeria reached the height of its commercial power in the 18th century at the time of a Muslim revival. Usman dan

Fodiya, leader of one of the principal Nigerian tribes, the Fulani, founded the Caliphate of Sokoto in 1807 and two years later took Kano.



8 Fortified trading posts (called factories) were built by Europeans on the West African coast. The first factory was Portuguese, built at Elmina on the Gold Coast in 1481. Its name, 'the Mine' reflected the first major export – gold. It became, however, like most factories, a slave trade base. Conceived as a town ship with the fortifications of a castle, the principal buildings were the store rooms, accommodation and the 'factory' quarters and work

shop [2], carpenter's shop [3], governor's hall [4], governor's residence [5], store rooms and accommodation [6], church, [7] and hospital [8].

4000-2000 BC The first civilizations

Principal events

Assisted by the invention of writing and the wheel, the world's first urban civilizations grew up and flourished in Mesopotamia, and later in Egypt in the fourth millennium BC. Mesopotamian city states emerged from ancient agricultural and religious settlements, encouraged by the immigration of the Sumerian people into the area and grew rich from agriculture and long-distance trade. With growth, however, came conflicts between cities, though none

achieved permanent supremacy. In Egypt early unification and centralization led to the Pyramid Age with its celebration of the pharaoh's authority. In both areas hereditary monarchies were set up c 3000 BC, with a bureaucracy that placed emphasis on public works, especially canal building. Towards 2000 BC Sumeria was threatened by barbarian invasions, while Egypt declined from internal stresses, as Minoan civilization emerged

4000-3800 BC

Farming settlements found in the lower Mesopotamian plain since 5000 BC probably included the sites of the future royal cities of Eridu, Uruk, Uppur and Girsu by 4000 BC.

The need for irrigation led to a more concentrated population and complex social systems.

The site of Babylon was founded c 4000 BC.

The Nile cultures were founded c 4000 BC.

3800-3600 BC

The Creation, in Jewish tradition, dated on 3761 BC.

3600-3400 BC

Uruk

Uruk c 3500 BC

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Uruk c 3500 BC

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National events

Neolithic society emerged from Mesolithic hunting communities in Britain after 4000 BC, producing a megalithic (large stone) culture similar to those emerg-

ing apparently independently throughout Europe. An advanced civilization using bronze developed in Wessex and built Stonehenge c 2000 BC.

Mesolithic man was found in Britain since 7000 BC, using flint and bone tools.

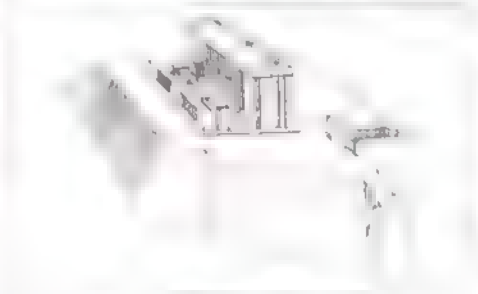
The first traces of farming found in Britain date from c 4000 BC.

Neolithic man appeared in Britain c 4000 BC, producing a megalithic culture.

Megalithic tombs are standing in the Neolithic period.



Megalithic house, 4000 BC



White Temple, Uruk, Mesopotamia 4thc BC



Sumerian cuneiform, 4thc BC



Palette of Narmer



Pyramids of Giza

Religion

The development of religious ideas in early history was closely related to the rise of settled agriculture and the emergence of the first states and empires.

The change from a hunting economy to one based on arable agriculture was reflected first of all in the rise of fertility cults in which the central figure was a mother or earth goddess.

With the growth of urban civilizations in the fertile valleys of the Nile and the

Euphrates, a priest-dominated society grew up with a system of gods, each related to a particular city or region. As the authority of the state and the priesthood became more centralized this was reflected in the changing importance of particular gods, and in Egypt in the rise of the doctrine of divine kingship and the construction of increasingly elaborate temples and royal tombs culminating in the Age of the Pyramids.

Fertility cults arose with settled farming, and the fertility of the soil, its products and seasons. These were the first gods, and were worshipped with fertility rites. In Egypt, the goddess Isis was worshipped as a fertility goddess, and the goddess Hathor was worshipped as a fertility goddess.

Burial cults arose with settled farming, and the fertility of the soil, its products and seasons. These were the first gods, and were worshipped with fertility rites. In Egypt, the goddess Isis was worshipped as a fertility goddess, and the goddess Hathor was worshipped as a fertility goddess.

Before the third millennium BC the religion of Mesopotamia was a fertility cult, and the goddess Isis was worshipped as a fertility goddess, and the goddess Hathor was worshipped as a fertility goddess.

The religion of Egypt before the foundation of the dynasty was a fertility cult, and the goddess Isis was worshipped as a fertility goddess, and the goddess Hathor was worshipped as a fertility goddess.

Literature

Writing developed in Mesopotamia as the Sumerians tried to simplify and regularize earlier pictorial writing and ideograms, a system for depicting sounds rather than ideas was probably invented by temple clerks in response to the need to record tribute payments and wages in the Mesopotamian city temples. With the development of the regular cuneiform style of

script, writing became a skill for every aspiring man to acquire. Literature had its origins in oral chronicles such as the *Gilgamesh* epic in Sumeria and in written prayers in Egypt where a hieroglyphic script developed after 3400 BC and poetry emerged during the Pyramid Age. By 2000 BC, China was creating independently an elaborate system of word signs.

The Sumerian language was first used by 5000 BC and a cuneiform script developed by 4000 BC. A though it is a pictorial script, it gradually began to take on a more formal appearance with agreed symbols standing for ideas. The Sumerian language was first used by 5000 BC and a cuneiform script developed by 4000 BC.

The first use of writing was in Mesopotamia, and the cuneiform script developed by 4000 BC. A though it is a pictorial script, it gradually began to take on a more formal appearance with agreed symbols standing for ideas. The Sumerian language was first used by 5000 BC and a cuneiform script developed by 4000 BC.

Temple clerks recording wages and tribute payments and wages in the Mesopotamian city temples. With the development of the regular cuneiform style of

An Egyptian hieroglyphic script developed after 3400 BC and poetry emerged during the Pyramid Age. By 2000 BC, China was creating independently an elaborate system of word signs.

Art and architecture

In Egypt and Mesopotamia, the development of pottery and small domestic articles, domestic implements and jewellery occurred in the Neolithic period, but with the growth of states and technological advance sophisticated metal crafts and stone sculpture developed. In the absence of stone, builders in Mesopotamia used as their basic medium the baked mud bricks which they later decorated with ceramics and copper reliefs, while the finest sculpture

and much beautiful jewellery was produced in metal. In Egypt, stone was used for a series of monuments, culminating in the pyramids, as well as for a highly sophisticated tradition of sculpture with its own rules of proportion that persisted for over 1,000 years. Throughout this period in China and after c 3000 BC in the Aegean, the manufacture of fine decorated ceramic ware anticipated the artistic achievements of subsequent centuries.

The appearance of painted pottery coincided with the late Neolithic and Chalcolithic period - a transition period between the late Stone Age and the early uses of copper. It is a decorated pottery dating from c 6000 BC has been found in Anatolia, Iran and in Assyria and Mesopotamia.

In Egypt black-topped polished bowls (Badarian ware) and terracotta figurines were produced. Ivory combs and other small domestic articles were produced.

The Sumerians in Suse produced a series of small domestic articles, domestic implements and jewellery occurred in the Neolithic period, but with the growth of states and technological advance sophisticated metal crafts and stone sculpture developed.

Undecorated stone vases from Egypt's Giza period were produced. Ivory combs and other small domestic articles were produced.

Music

Music probably originated in man's desire to express himself more richly and formally than he could in speech alone, ritual chants rapidly developed into musical forms with special meanings.

Large widely separated cultures produced similar kinds of instruments, adapting natural objects to musical uses. Bone flutes and whistles found in Hungary and Russia date from c 25,000 BC.

The harp, in its primitive form, probably developed from the archaic stringed instrument covered in animal skin. In Mesopotamia a harp was played with a plectrum. The harp was found in Mesopotamia and in Assyria and Mesopotamia.

The wheel was invented in Mesopotamia and was used for transport and for the production of pottery.

Drum and reed pipe music was produced. Ivory combs and other small domestic articles were produced.

Religious music was produced. Ivory combs and other small domestic articles were produced.

Science and technology

The elaborate civilizations of Mesopotamia and Egypt depended for their development on the settled agriculture practised by Neolithic peoples in these regions since c 8000 BC. Without it they could not have sustained either the increased population or the specialization of urban life. Once secure these societies spawned a remarkable series of technological advances. The 4th millennium BC saw the invention of the plough, the wheel, the sailing boat and methods of writing. Stone tools gave way to those of

copper and bronze, a hard alloy that came into use c 2500 BC. Scientific method as we know it - the systematic testing of theories about the material world - did not develop until much later but the technical knowledge of these early societies was very sophisticated. The pyramids remain one of the finest engineering feats of all time and in West Asia, as later in China and Mesopotamia, the mathematics used by priests provided the basis for the development of other sciences.

Neolithic, New Stone Age settlements prospered in Egypt, Mesopotamia between the rivers Tigris and Euphrates, and in parts of the Taurus mountains. The first cities were founded in Mesopotamia and in Assyria and Mesopotamia.

Land transport vehicles in Mesopotamia included the wheel. The wheel was invented in Mesopotamia and was used for transport and for the production of pottery.

Copper first used in Mesopotamia c 2500 BC. The first cities were founded in Mesopotamia and in Assyria and Mesopotamia.

Ploughs were invented. The first cities were founded in Mesopotamia and in Assyria and Mesopotamia.

3200-3000 BC

The Delta Kingdom of Lower Egypt

ended with the founding of the First Dynasty which he ruled from his new capital at Abydos.

The Phoenicians, a Semitic people, began to settle in the Levant c. 3000 BC. **Copper** was widely used through the Bronze Age, c. 3000 BC.

3000-2800 BC

Cretan Neolithic culture (late)

Sumerian cities

onwards. The Sumerian Tablets of Ur, from the Early Dynastic III period, are the earliest Sumerian age. **Public works in Egypt** early canal construction led to the growth of the Egyptian bureaucracy in the Early Dynastic Period when a national government first developed.

2800-2600 BC

Gilgamesh, the legendary king of Uruk

Records of Sumerian kings began with Mesopotamia of c. 2700 BC

The Old Kingdom of Egypt

a 1000-year period of stability and cultural splendour began c. 2700 with the reign of Zoser.

Uruk c. 2600 **Akkadians** came to dominate the northern Mesopotamian plain in the Early Dynastic III period.

2600-2400 BC

Conflict between Sumerian cities such as Uruk and Lagash ended c. 2500

A prosperous culture emerged

Royal power reached its zenith in the Egyptian Old Kingdom c. 2500 under the pharaohs.

A see-going Minoan civilization developed in Crete c. 2500.

2400-2200 BC

Sargon the Great the Akkadian ruler of Sumer and Lagash c. 2300

Akkadian empire began to spread from the Tigris valley

Urukagina, king of Lagash, c. 2300, was a reformer who was praised by a contemporary poet as the 'good shepherd' of his people. **The Gutians** dominated the Akkadian empire c. 2300.

2200-2000 BC

Gudea of Lagash

Urukagina's reforms were reversed by Gudea c. 2100

King Mentuhotep of Thebes

The first Minoan palaces

Stone temples



Egyptian sculpture, c. 2500



Royal standard of Ur, Mesopotamia

Stonehenge

Chertans



Bronze bust of Sargon I



Stonehenge, Wessex, c. 2000 BC

The religion of Mesopotamia reached its classical form

the main gods: **Anu** god of heaven, **Enki** god of the waters, **Ninhursag**, goddess of birth, **Enlil** god of wind. Their activities were linked together by a common myth.

operation between the stars. **Mesopotamian astrology** began in the 2nd millennium BC.

The priests at Memphis

Plah believed to have created the world and was known as the 'father of the gods'. His name was also used for the god of the sun, moon and stars.

to the sophistication of the Mesopotamian religion.

In the Egyptian early dynastic period

started with Horus

Classical Egyptian religion described an optimistic vision of an ordered cosmos, in which the gods were seen as the rulers of the universe.

of the Egyptian government, the gods were seen as the rulers of the universe.

The first pyramid tombs were built in Egypt c. 2600.

The concept of divine kingship

Authority The king became identified with the god **Horus**.

of the Egyptian government, the gods were seen as the rulers of the universe.

The first pyramid tombs were built in Egypt c. 2600.

With the decline of the Old Kingdom

have been a significant factor in the decline of the Old Kingdom.

of the Egyptian government, the gods were seen as the rulers of the universe.

The first pyramid tombs were built in Egypt c. 2600.

A cuneiform script was used in Mesopotamia c. 2600 BC

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without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

An cuneiform spread, writing began to achieve a wide range

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without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

Literature had yet to emerge

but writing was becoming an

advanced form and literary form was emerging in the 2nd millennium BC.

marked the first great poem in the history of literature.

Another script was evolving in the Akkadian empire c. 2300

the first cuneiform script was used in Mesopotamia c. 2600 BC.

without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

The first literature dates from the Akkadian empire c. 2300

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A Chinese script

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Mesopotamian cylinder seals

the first Mesopotamian period

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Complex tombs for Egyptian nobles were constructed in the 2nd millennium BC

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The outstanding advance of Egyptian Old Kingdom architecture

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Early Minoan art

used by the Minoan civilization

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Narrative reliefs and statues

physiognomy of the Egyptian

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A group of diorite statues of Gudea

the first cuneiform script was used in Mesopotamia c. 2600 BC.

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The Palette of Narmer

Egyptian pottery

the first cuneiform script was used in Mesopotamia c. 2600 BC.

Vertical (end-blown) flutes

the first cuneiform script was used in Mesopotamia c. 2600 BC.

Populations in Mesopotamia and Egypt

the first cuneiform script was used in Mesopotamia c. 2600 BC.

A harp

the first cuneiform script was used in Mesopotamia c. 2600 BC.

Two kinds of harp, dating from the 2nd millennium BC

the first cuneiform script was used in Mesopotamia c. 2600 BC.

Antiphonal forms

the first cuneiform script was used in Mesopotamia c. 2600 BC.

Boats

Metal-moulding

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without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

Bronze alloys

Populations in Mesopotamia and Egypt

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Populations in Mesopotamia and Egypt

The first calendar

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Mesopotamian metallurgy

The Great Pyramid

the first cuneiform script was used in Mesopotamia c. 2600 BC.

without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

Weaving with looms

Weight standards

the first cuneiform script was used in Mesopotamia c. 2600 BC.

without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

Ziggurats

The Bronze Age

the first cuneiform script was used in Mesopotamia c. 2600 BC.

without writing, the first cuneiform script was used in Mesopotamia c. 2600 BC.

2000-1200 BC Hittites and Assyrians

Principal events

An influx of Aryan tribes, at the beginning of the second millennium BC, disrupted the civilizations of Sumeria, the Indus, and to a lesser extent Egypt while adapting well to the existing cultures, especially in Babylon. After 1600 the Egyptians, the Hittites in Anatolia, and the Assyrians all developed large-scale military organizations to sustain their growing imperial ambitions. In the eastern Mediterranean new civilizations began to emerge in

this period. The Cretan Minoans created a sea-based empire and a flourishing, peaceful civilization based on Knossos, and Mycenae began to establish itself as a power in southern Greece where olive and vine farming formed the basis of future economic development. After the fall of the Minoan civilization Mycenae took over much of its maritime power and culture, but with further invasions from the north c. 1200 BC she too declined.

2000-1920 BC

The brief Sumerian renaissance ended on the continent until c. 1950 BC when Sumeric Amorites overran much of Sumeria. This was the beginning of a long period of instability in Mesopotamia. In Egypt, the Middle Kingdom

ended, and the Hyksos, a Semitic people from Syria, had subdued the nobility and restricted provincial autonomy. Building, art, and literature

1920-1840 BC

Sennusert III, 1857-1849 BC, further consolidated royal authority in Egypt by suppressing provincial rulers, nomads, and insisted the use of a bureaucratic and trading middle class.

Unrest in Sumeria

and Late Sumeria during which the Amorites gradually superseded the Sumerians.

The Semitic language of the Amorites gradually superseded the Sumerian language between 2000 and 1700 BC.

1840-1760 BC

Hammurabi the Great of Babylon, c. 1792-1750 BC, an Amorite, subdued the other cities of Mesopotamia and built an empire from the north Euphrates to the Persian Gulf, ruling with a code of laws based on principles absorbed from Sumerian culture. The Middle Kingdom of Egypt ended c. 1786 BC, weakened by an influx of the Hyksos, a Semitic people from Syria. The Indus civilization, already in decline, was destroyed by invading Aryans c. 1760 BC.

1760-1680 BC

The Hyksos became firmly established in the Delta region of Egypt and adopted Egyptian culture. By 1700 BC a dynasty of Hyksos pharaohs was established. The Babylonian Empire slowly crumbled under Hammurabi's son c. 1700 while culture and religion flourished. A natural disaster on Crete caused the Minoan palaces to be rebuilt c. 1700 BC. The Hittites, an Aryan people, grew powerful in Anatolia.

National events

The Bronze Age in Europe which stretched from 3000 BC to 700 BC in three main phases, became more widespread in western Europe in the third millennium.

Iron Age in Europe which stretched from 700 BC to 500 BC in three main phases, became more widespread in western Europe in the third millennium. Copper and bronze working entered Spain c. 2000 and came to flourish in southern England, apparently as a result of trading contacts with Europe.

The so-called "Belt-Beaker" folk, originating in the middle Rhine area, made contact with the Atlantic culture, 2800 and introduced it.

During the Early Bronze Age, c. 2000-1700, Aegean flourished because of its control of the trade routes linking the East and West.

To the rest of Europe, at this stage most of the bronze used in England was imported, already worked as copper.

In the Middle Bronze Age, c. 1700-1300, a highly skilled indigenous metal industry emerged by the objects made



Minoan jug, c. 1800 BC



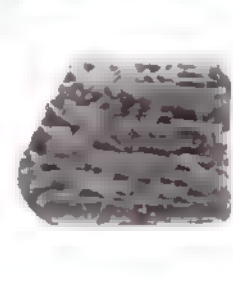
State apartments of the Palace of Knossos, Crete



Mask of Tutankhamen



Mycenaean capital, 14th c.



Early Ugaritic script, 14th c.

Religion and philosophy

The incursions of Aryans and other invading peoples into the main centres of civilization in the Near East disrupted the established religious traditions, dispersed some of their elements and introduced new ones. The gods of the newcomers reflected their warlike nature, and the worship of their gods evolved into ecstatic sacrificial cults. Their impact upon Egypt, however, was transitory, and the traditional religious system continued and developed, interrupted by a brief but interesting monotheistic interlude under Pharaoh Akhenaten in the early 1300s BC. Once the more turbulent areas of Mesopotamia had settled to orderly lives of commerce and agriculture in city-centred communities, the first codes of law and concepts of citizenship were devised. In this period the basis of the Judaic tradition, with its emphasis on ethical monotheism, was laid among the Israelite tribes.

ruled by a brief but interesting monotheistic interlude under Pharaoh Akhenaten in the early 1300s BC. Once the more turbulent areas of Mesopotamia had settled to orderly lives of commerce and agriculture in city-centred communities, the first codes of law and concepts of citizenship were devised. In this period the basis of the Judaic tradition, with its emphasis on ethical monotheism, was laid among the Israelite tribes.

Amenemhat I, the founder of the Egyptian 12th Dynasty, claimed descent from Amun, a local god of his native Thebes. From this time Amun, a father of the gods and the Helios-like god Re, were identified as Amun-Re, emphasizing change in the royal family and affirming the divinity of the king-to-pharaoh of Egypt.

The Canaanite religion, El, supreme god, and Baal, god of the sun, rain, and fertility.

to create. It is praised in the Yahweh.

The migrations of Aryans and other peoples from the Black Sea area helped to disperse religious ideas and practices. The Hittites, who invaded Upper Mesopotamia at this time, transmitted elements of Sumerian beliefs northwards.

The complex law code devised by Hammurabi the Great of Babylon c. 1792-1750 was created in response to the needs of increasing trade, unity and commerce. It sought to end blood feuds and personal retribution and replace these with a secular state code based on the idea of citizenship. For the first time of the codes of the age stated that "a man's home is his own; an Iqneemah was injured, then the owner was to be held responsible."

Literature

Cuneiform became more sophisticated after 2000 BC but a more important development was the emergence of the first consonantal (BCD) script, the simpler to master than earlier syllabic systems of writing, none of which have remained in use. The Syrian Ugaritic script, however, which developed in the mid 2nd millennium BC also had three vowel signs.

although the five-vowel alphabet would not be elaborated until after 1000 BC by the Greeks who would draw on a variety of Semitic scripts. Literature of the period ranged from narrative and love poetry in Egypt to historical narrative among the Hittites, the religious Vedas in India, the ethical and divinatory I Ching and philosophy in China.

The Egyptian Coffin Texts, c. 1800-1780, found in coffins and papyrus, the oldest known Egyptian literary texts, were mythological stories that purport to give the dead person power in the afterlife, and after 1550 they were collected into a more unified "The Egyptian Book of the Dead."

The Babylonian ritual poem, the Epic of Creation, reached its oldest form as part of the ceremonies associated with the New Year. It told how the god Marduk slew the sea monster Tiamat and created man as a servant of the gods.

The Babylonian ritual poem, the Epic of Creation, reached its oldest form as part of the ceremonies associated with the New Year. It told how the god Marduk slew the sea monster Tiamat and created man as a servant of the gods. The period is infused with a sense of metaphysical pessimism.

The ancient Greek script, Linear B, was used by the Mycenaeans from c. 1400 BC to c. 1150 BC. It derives from Linear A, an undeciphered script used by the Minoan civilization.

Art and architecture

The brilliant civilization which emerged in Crete reached its peak of cultural achievement between 1800 and 1600 BC with palaces of a highly functional design and decorative arts whose grace and vitality reflected a long period of peaceful development. Minoan fresco painting, sculpture and painted pottery were characterized by a humane outlook and a love of nature and movement. The influence of Minoan art extended to Mycenae.

Temple architecture revived in Egypt with the Middle Kingdom and enjoyed its golden age in the 14th and 13th centuries. The New Kingdom ruler Akhenaten, who made sun worship the state cult during his reign, built some of the finest of these and introduced a revolutionary naturalism into royal portrait sculpture. Chinese bronze workmanship was the most advanced in the world and calligraphic art was beginning to develop.

In Egypt, the establishment of the Middle Kingdom in 1991 BC was marked by an economic and artistic revival. The Great Temple of Karnak, built during the Middle Kingdom, was a masterpiece of architecture and painting.

The Belt-Beaker culture

Speakers associated with horizontal bands of geometric patterns in China. Lung shan is a pottery found after the end of the Zhou dynasty.

The Minoan palaces at Knossos, Phaistos and other Cretan sites were rebuilt on a grander scale in the Middle Minoan period, 1800-1600, with more varied architecture, features such as light shafts and efficient sanitation. By about 1760 BC Minoan potters were producing fine kamares ware pottery in graceful and varied shapes with a glaze of blue and green and geometric motifs. Craftsmen specialized in small vessels such as frame figurines.

A major revival of Mesopotamian art marked the rule of Hammurabi, c. 1792-1750. Old palaces and buildings were strengthened and new ziggurats constructed. To the north the city of Mari, partly built under the ruler Zimrilim, c. 1775-1760 BC, is remarkable for its size (its 200 rooms cover four hectares (10 acres)) and the fine painted decorations include narrative pictures such as the "Royal Hunt of Zimrilim."

Music

The development of a metal-working technology in ancient civilization enabled craftsmen to make metal instruments based on older instruments made from organic materials and stone.

Bells of bronze replaced stone chimes, and bronze-copper or silver trumpets replaced hollowed horns. A metal tube with a more cylindrical bore than animal horn gave a brilliant tone.

The yellow bell, or Huang ching, was the main instrument, also used in the early period produced by bamboo pipe of bell length and a small bell.

The shaduf

This is an Egyptian device used for lifting water. It was used by the Egyptians in the Middle Kingdom.

Early iron technology

involved repeated hammering. The first iron was used in the 14th century BC.

Cosmetics in Egypt

used in the 4th millennium BC. Included perfumery oils extracted from fruits by pressing them through a cylindrical cloth.

Science and technology

Trade and war were the main stimuli of technological advances in the 2nd millennium BC. Larger sailing ships were used to bring tin from the Mediterranean countries to Mesopotamia and to carry away bronze objects made using the tin. Radical improvements took place in chariot design, but the greatest technological event was the mastery of iron by Hittite smiths. Although they lacked heat enough to melt the metal, the Hittites made iron implements by hammering them out of the

heated ore. The resultant metal, albeit flawed by slag, could be tougher and harder than bronze. Weapons, sword blades in particular, benefited while metalwork for decorative purposes in iron, bronze, gold or silver became highly refined, as the objects found in the tomb of Tutankhamen show. Bronze vessels of superlative craftsmanship were made in China too under the Shang dynasty.

Early Chinese technology

suggested by the findings of the Shang. The first iron was used in the 14th century BC. The first iron was used in the 14th century BC. The first iron was used in the 14th century BC.

Bronze-casting in Mesopotamia

followed the lost wax method, a one-off process necessarily reserved for valuable items. Objects were modelled or sculptured, then covered with clay.

1690-1600 BC

The Minoans established a sea trade empire.

Minoan ships under their own flag sailed regularly to Egypt. c. 1650 BC, creating the Minoan golden age, centered on ships.

The **Babylonian Empire** was already threatened by the Hittite of Arrian Kassa, the north c. 1600 BC.

The **Shang dynasty**, which introduced writing in China, developed an urban civilization c. 1600 BC.

1600-1520 BC

The Hittites conquered Hattusa c. 1550 BC under King Mursili II. In their wars, they destroyed the Hittite.

The **Mycenae** were driven from Egypt c. 1570 BC by the Theban kings Kamose and Amenhotep III, who established the New Kingdom, marking off a growth of national feeling.

Mycenaean civilization was growing in maritime Greece and has left rich shaft graves. **Minoan civilization** reached height c. 1550 BC.

Amber-bead spacers originating in Mesopotamia have been found in Mycenaean shaft graves of this period, suggesting considerable long-distance trading contacts.

1520-1440 BC

Mitanni, an kingdom in Assyria, grew in.

Assyria grew in.

Assyria grew in.

Assyria grew in.

Assyria grew in.

Assyria grew in.

Assyria grew in.

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1440-1360 BC

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1360-1280 BC

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Under Ashurban

1000-950 BC
David, king of the Jews (1000-970 BC)

Hiram I

Damascus and Geshur were

950-900 BC
Assurbanipal (911-882 BC) was the last Assyrian king who ruled from 685-627 BC.

Egypt re-emerged as a major power in the 26th dynasty (664-340 BC).

The Jewish kingdom was founded by David in 1000 BC and lasted until 586 BC.

900-850 BC
The Phoenician city of Tyre was founded around 900 BC and became a major center of the Phoenician Empire. **Egypt and Assyria** fought the Battle of Qadesh in 1284 BC. **The battle of Qadesh** (1284 BC) was a major battle between Egypt and Assyria. **In Greece**, there was a period of stability from monarchies to oligarchies in most of the city-states. **The Chaldean culture** flourished in Babylonia from 626-539 BC.

850-800 BC
Shalmaneser III (824-811 BC) was the last Assyrian king who ruled from 824-811 BC.

Damascus

The Medes

Babylon was founded around 600 BC. **The Phoenicians** colonized the eastern Mediterranean and established Carthage in 814 BC.

800-750 BC
Assyrian military power

A Greek renaissance

Judea (Judah) was a kingdom in the south of Judaea.

Jeroboam

The caste system

Rome

The Assyrians used luxury bronze goods.

750-700 BC
Tiglath Pileser III (745-727 BC) was the last Assyrian king who ruled from 745-727 BC.

Phrygia

Greek cities

The Kushite kingdom was founded in 747 BC.



Gates of Shalmaneser III. Assyrian war machines.



The Ziggurat at Khorsabad.



Phoenician musicians, 8th c.



Chariot from Greek amphora.

The foremost Vedic writings

Primitive Japanese religion, Shinto, was based on a belief in the kami.

Kame was a symbol of good luck.

The Aryans were a group of Indo-European people who migrated to India.

Indus was a river in the Indian subcontinent.

Jehoiachin was a king of Judah who ruled from 605-597 BC.

Isaiah was a prophet in the 8th century BC.

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Dionysus, or Bacchus, reached Greece from Asia and Phrygia. His followers were the Maenads.

Maenads were female followers of Dionysus.

Dionysus was the god of wine, fertility, and theater. He was often depicted with a wild, drunken appearance.

The concept of caste emerged in India around 1000 BC. It was a system of social hierarchy that divided society into four main groups: Brahmins, Kshatriyas, Vaishyas, and Shudras.

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Hebrew literature

The Trojan cycle of legends was a collection of stories about the Trojan War, which is believed to have taken place around 1200 BC.

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The Moabite Stone was a large stone inscription found in Moab, dated to the 9th century BC. It contained a record of King Mesha's rebellion against the Israelites.

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The Scandinavian Iron Age

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Nimrod in Mesopotamia was a legendary figure who is believed to have been a powerful ruler in the region around 2300 BC.

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Bronze trumpets were used in ancient times for signaling and communication.

Psalms were a collection of religious songs and poems that were used in Jewish worship. They were attributed to King David.

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Lyres and harps were used in ancient times for music and entertainment. They were often found in tombs and temples.

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Assyrian military technology was highly advanced for its time, featuring a variety of weapons and armor that gave them a significant advantage in battle.

Chinese chariots were a major mode of transport and warfare in ancient China. They were often used by the aristocracy and the military.

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Iron mines in Italy were a source of wealth and power for the ancient Romans. They provided the raw materials needed for the production of iron tools and weapons.

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Siege towers were a type of military vehicle used by ancient armies to breach city walls. They were often built on wheels and were equipped with a variety of weapons.

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700-300 BC The birth of philosophy

Principal events

Middle Eastern civilisation entered a phase of turmoil between the 8th and 6th centuries BC with a series of short-lived empires established by the Babylonians, Persians and Greeks, while the Magadha Empire grew up in India.

The most striking feature of the period, however, was cultural – a massive shift towards the systematisation of thought which took place in literature and the sciences and was manifested above all in the founding

of many of the Eastern religions and the principal schools of Western philosophy.

Athens, where culture and democracy flourished in the context of a prosperous city state, stood at the centre of the first brilliant flowering of European urban culture, and although her power even in Greece was limited by Sparta and Macedonian militarism, the conquests of Alexander would carry this culture throughout the Middle East.

National events

The Iron Age reached Britain and, as elsewhere in northern and eastern Europe, stimulated the development of a tribal Celtic culture, made homo-

geneous by the supremacy of the druids. A rising population and pressure on the land ended the tranquillity of the Bronze Age.

700-660 BC

Sennacherib II 704-700 BC. Assyria reached its greatest extent under his reign, but he was killed by his own army in 700 BC.

Tyrrhenian cities 700-660 BC. The Tyrrhenian cities were founded by the Etruscans.

660-620 BC

Sparta

Ashurbanipal

Chakreen Nabopolassar

Josiah

Phoenicia

Urnfields

620-580 BC

Nabopolassar of Babylonia 620-562 BC. He was the founder of the Neo-Babylonian Empire.

Sparta 620-580 BC. Sparta was a powerful city state in Greece.

Nabuchadnezzar II 605-562 BC. He was the king of Babylonia.

Solon 620-546 BC. He was a Greek philosopher and statesman.

The use of iron made and

580-540 BC

Babylonian power 580-539 BC. The Babylonian Empire was at its height.

The Ptolemaean League 580-540 BC. It was a league of Greek city states.

Pisistratus 560-527 BC. He was a Greek philosopher and statesman.

Cyrus the Great 559-530 BC. He was the founder of the Persian Empire.

The Kushite kingdom reached its height 540-497 BC.

The Magadha Empire was established 540-332 BC.

Trading contact with Europe was established. The earliest historical records from the Indian subcontinent date from this period.



Greek Kouros figures. 6th c.



Greek black-figure vase decoration



Ming portrait of Confucius



The Parthenon on the Acropolis, Athens

Religion and philosophy

Within a remarkably short time, a number of diverse and highly sophisticated religions of world significance arose. Buddhism and Jainism in India marked a break with Brahmanic ritualism. Zoroastrianism in Persia established religious themes which were to spread westwards with far-reaching consequences. In China, both Taoism and Confucianism established the doctrine of harmony as their central idea. The flowering of Greek philo-

sophy is one of the most extraordinary episodes in the history of thought. A questioning of accepted ideas, including the tenets of religion, and an emphasis on rational argument resulted in Greek thinkers from Thales to Aristotle raising most of the issues which have occupied Western philosophy up to the present time. Central concerns were the nature of reality and the basis of virtuous conduct.

Literature

From religious mysteries and epic poems, literature began to develop secular forms of many kinds. The most varied and accomplished writing emerged in Athens where theatre became a medium into which most poetic energy flowed, whether tragic, epic, comic or lyrical. Poetry flourished and prose writing developed in the fields of history and

philosophy, although Plato's use of the Socratic dialogue indicated the all-pervading influence of the dramatic form. Systematisation of previous literary developments occurred in all the major cultures of the world. For the first time, the *Gilgamesh* epic was collected, as were the Indian epics, while in China the teaching of philosophers was written down.

Etruscan inscriptions, mostly of a religious nature, date from c. 700 BC. They are written in a script which is still unknown, but they indicate that the Etruscans had a written language.

Art and architecture

Although the Assyrians and Babylonians produced much striking monumental art in the 7th and 8th centuries BC, the most significant artistic development of the period was the evolution of Classical Greek art in which a new realism superseded the stylisation common to the ancient Near Eastern art.

A narrative style grew up in pottery decoration drawn with a fluid hand in black and red-figure work. In sculp-

ture the traditional *kouros* figure gradually took on a more relaxed pose and a representational style developed – the first major step in the emergence of European art. Greek architects, especially in Athens, designed simple but subtle buildings using austere ornamented lintels and columns as the basic units and counteracting the effects of foreshortening with the help of mathematics.

Assyrian wall reliefs of the 7th century were carved on stone instead of moulded, giving them detail to scenes. They were a development of the Assyrian style. **Sarcophagi** were also made. **Gold scarabs** from Egypt were found. **Clay tablets** with cuneiform writing were found. **Clay tablets** with cuneiform writing were found.

Music

Music theories developed in the East and the West, and especially in China, as complex scales were devised, but little is known of the style of music produced at this period.

The seven-note scale, later to become the basis of most European music, entered Europe from the Near East through Greece c. 650 BC. In India, the basis for the *raga* was evolving.

Terpander, the Greek lyricist, c. 630 BC, was a founder of classical Greek music. He is sometimes credited with having introduced the *kythera*.

Science and technology

By the 5th century BC the Athenian Greeks had established a rich and complex pattern of manufacture, particularly in pottery and textiles with trading contacts from the Black Sea to the Rhine. They did not introduce many advances in technology, which they preferred to regard as the preserve of slaves. Their theoretical writings, however, have provided the basis for much Western European science even where, as in the case of Aristotle, this consisted in the

systematisation of earlier thinking or the elaboration of untested hypotheses. Greek mathematics began in the 6th century with Pythagoras but by the 4th century the focus of the sciences had moved to Alexandria where scientific study flourished. In China, where military technology may have received a spur from constant attacks by nomadic invaders, the crossbow was invented and a way was found to melt cast iron.

Greek silver coins with an owl design came into circulation. **Greek silver mines** were discovered. **Greek silver mines** were discovered.

Thales of Miletus

Thales of Miletus was a Greek philosopher and statesman. He is known for his contributions to the foundations of Western philosophy.

A library

A library was established in the city of Alexandria. It was one of the largest libraries in the world.

Clay tablets

Clay tablets were used for writing in many cultures. They were often found in archaeological excavations.

Scale theory

Scale theory was developed in the 6th century BC. It was a system of music theory.

Central European technology

Central European technology was advanced. It was a system of technology.

Taoism

Taoism was a Chinese philosophy and religion. It was founded by Laozi.

In the *Shageved Gita*

In the *Shageved Gita*, a Hindu text, the concept of the soul is discussed. It is one of the most important texts in Hinduism.

Babylonian wall reliefs

Babylonian wall reliefs were carved on stone. They were a development of the Assyrian style.

The kettle drum

The kettle drum was a type of drum. It was used in many cultures.

Anaximander

Anaximander was a Greek philosopher and statesman. He is known for his contributions to the foundations of Western philosophy.

Jainism was developed in India

Jainism was a Indian religion. It was founded by Mahavira.

Mahevi

Mahevi was a Hindu deity. He was worshipped in many temples.

Attic black-figure pottery

Attic black-figure pottery was a type of pottery. It was made in Athens.

Pythagoras

Pythagoras was a Greek philosopher and statesman. He is known for his contributions to the foundations of Western philosophy.

Thales

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640-600 BC

Cyrus took Babylon in 539 BC

The Persians were the first to use iron weapons and armor. They were the first to use iron for tools and buildings.

Rome expelled her Etruscan kings

Cleisthenes

500-460 BC

Athens reached its peak

Xerxes

The Delian League

Celtic culture spread in

The Greeks defeated Carthage

480-420 BC

Athenian power and culture were at their peak

Rome expanded

Buddhism in India began early among the Mahayana schools

The Peloponnesian war

420-380 BC

The Peloponnesian war

The Romans expelled the Etruscan city of Veii but Rome was still a city of mud-brick houses

Socrates taught in Athens in 399 BC

The Zhou dynasty

380-340 BC

Athens defeated Sparta

Philip of Macedon 336-336

The Persian Artaxerxes III

340-300 BC

Alexander of Macedon

The Indus in 327 BC (Macedonian)

Chandragupta created the Maurya dynasty in

Rome

Celtic La Tene culture

Wheat became an important crop in 500

Salt

Increasing population led to

Many hill-forts such as Badbury

The druidic religion based on

The druids



Scythian gold plaque 5thc



Classical Greek sculpture



18thc. Portrait of Aristotle



Alexander the Great in battle

Confucius of China

Buddhism was founded in India by Siddhartha Gautama c. 500

The Greek Sophists Protagoras

Socrates

Plato

Aristotle

Mo Ti

Plato

The Cynics Diogenes

Epicurus

Mencius

Zeno

Aristotle

Pythagoras theory of numbers and music

Zeno of Elea

The Greek Sophists Protagoras

Socrates

Plato

Aristotle

Mo Ti

Plato

The Cynics Diogenes

Epicurus

Mencius

Zeno

Aristotle

Classical Greek tragedy with Aeschylus c. 525-456

Sophocles c. 496-430 BC and

Euripides c. 480-406 BC

During the time of Confucius

The Boeotian Pindar c. 518-442

Euripides

Herodotus

Thucydides

Plato

Aristophanes

The philosopher Socrates

Aristotle

Mo Ti

Plato

Aristotle

Mo Ti

Plato

The New Comedy

Menander

Philemon

Plato

Painted grey ware of the

Bronze and ceramic vessels and

Go were

Cyrus funerary monument

Early Celtic bronze ware

tion c. 480 BC show how

and eastern ornaments

The Palace of Darius 522

486 records Persia's victory

the Medians and

Greek art became increasingly

and more humanistic in style

period between 470 and 400

The Cretan boy c. 360 from

ation of the

Parthenon

The Greek Late Classical

period 323

The more complex Ionic

style with the elaborate

designs of the Erechtheum

Propylaea

Idealized grace and beauty

Classical Greek sculpture

The famous marble statue of

carved marble were inspired

by Praxiteles in Hermes with

Propylaea

Corinthian columns

architecture with the monument

at Athens built in 335-330

Praxiteles in Hermes with

Propylaea

The Appian Way

The ancient Greeks invented

the wheel after 1000 BC

such as the Lydian and Phrygian

The rise of drama in Greece

and dance, music and poetry

A Chinese text showed how the

chromatic scale of 12 had formed

the basis of Chinese music

A Chinese text showed how the

chromatic scale of 12 had formed

the basis of Chinese music

the basis of Chinese music

the basis of Chinese music

The Rameyane a book of Hindu

myths recorded the basic

Aristoxenus a pupil of Aris

tophe tabulated Greek modes

BC after help of

Alexander the Great's invasion

of India brought with it

the Indian culture developed

the Indian culture developed

the Indian culture developed

The elements of Aristotle

earth, air, water and fire

the elements of Aristotle

earth, air, water and fire

the elements of Aristotle

Anaxagoras the Scythian

Theodore of Samos

developed the key element

in the development of

the development of

the development of

Athenian culture

the development of

the development of

the development of

the development of

the development of

Democritus

Quercus on Mount Pentelicon

Hippocrates

explored mind and body con

ditions in terms of humors

the development of

Chinese cast iron appeared

in the Chinese cast iron

the development of

the development of

the development of

the development of

Aristotle systematized

knowledge of the world

the development of

the development of

the development of

the development of

The elements of Aristotle

earth, air, water and fire

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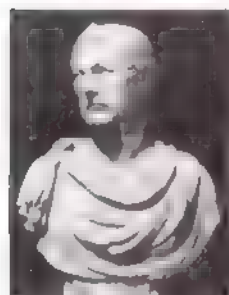
300BC-AD100 Rome conquers the West

Principal events

Despite the constant political unrest that followed Alexander's fall, a cosmopolitan Hellenistic culture spread throughout the Middle East. This was absorbed by Rome, which now emerged as a great power creating eight provinces by 146 BC, including Macedonia and Spain. Conquest, however, brought with it chronic social conflict in Italy which finally helped to destroy the Roman Republic and led to the establishment of the empire in 28-27 BC.

National events

The Roman Empire came closer to Britain, which was torn by conflicts between Celtic tribes. Contact with Europe, and especially Gaul, increased.



Roman bust of Hannibal

Religion and philosophy

Christianity grew from being one of several Jewish nationalist sects into a more universally significant religion, as Paul spread it throughout the Roman Empire and introduced Hellenic ideas. The Christian emphasis on the individual conscience and on love brought persecution in Rome where religion was primarily a public or political concern. In India a proliferation of Hindu sects provided more popular forms of worship than the traditional Brahminical cult and

Literature

Although Greek literature itself declined its influence spread first in the wake of Alexander and then through Rome, which built its culture to a large extent on that of Greece. A Latin literature arose in the third century BC based on Greek models in poetry, drama and history although under the late republic a number of writers, among them Caesar,

Art and architecture

Throughout the Hellenistic world private patronage helped artistic production and collectors' demands were so great that copying and pastiche developed although many artists explored new ideas. Styles like that of the Pergamon school, marked by a new and masterful handling of emotion, were still for the most part associated with places rather than individuals. The Roman Empire absorbed the art of both the Hellenistic world and Italy. Etruscan icons

Music

Music stagnated in the West under the Roman Empire but the Jews maintained their vocal tradition from which the Christian Church borrowed heavily later. In the Arab world,

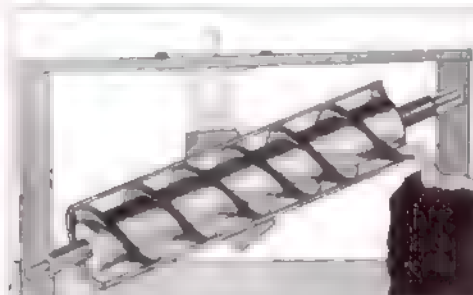
Science and technology

In the Hellenistic world Alexandria became the focus of scientific work particularly in mapping, astronomy and mathematics. At the same time Greek technology found its greatest mathematician and experimental physicist in Archimedes.

As Rome expanded she developed the use of concrete and the arch in the building of bridges, roads and aqueducts, creating a series of civil and military engineering projects that surpassed in

constitutional solution which left the problems of expansion untouched. By AD 100 the empire stretched from Egypt to Britain, bringing to Rome new manpower, art forms and the many religious cults she incorporated among them Christianity. In the East Buddhism and Confucianism grew influential, the former spread by Ashoka in southern India, the latter becoming an integral part of society in China where it would remain for 2,000 years.

After Julius Caesar's abortive expedition in 55-54 BC the divided Britons were able to put up only minimal resistance to the Roman conquest.



Archimedeian screw

important additions to the sacred literature expressed further compromise with the everyday needs of worshippers.

New schools of thought grew up in China, while Confucianism became adopted as the official state religion under the Han dynasty c. 140 BC.

Lucretius and Virgil set out to glorify specifically Roman culture and history. The New Testament was written in Greek still at the end of the first century the lingua franca of the eastern Mediterranean. The Chinese classical literature flourished while in India the epics and Buddhist scripture were finalized.

graphy was copied, and the basic design for Roman architecture came from Etruscan models. Roman municipal architecture reflected both a strong civic pride and the varied leisure pursuits of her urban elite. Baths, theatres and basilicas, constructed with careful attention to practical requirements, also served to create a dramatic framework for public life. Monuments were erected to commemorate the victories of the late republic and early empire.

music was still a lively art. The progress of music in the East had little influence on Western musicians, but Western incursions affected Eastern music to some degree.

scale any since those of the Assyrians and Egyptians. Nevertheless, whether because of the widespread use of slave labour or the stifling effects of a powerful bureaucracy the Romans, like the Athenians, failed to exploit many inventions of their time.

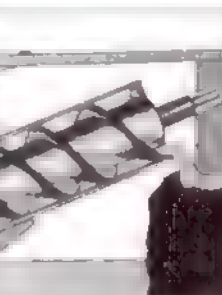
In China iron metallurgy improved still further, surpassing any in the West. Chinese astronomy was also active, and the preparation of many useful drugs, from plants, became a speciality of Chinese medicine.

300-260 BC
Alexander's empire had broken into four parts by 297 BC. The

dome and Thrace, the Seleucid dynasty in Syria and the Ptolemies in Egypt whose in-

Rome
Italy and with the defeat of Tarantum in 272 BC came into conflict with Carthage in Sicily.
Ashoka

La Tène culture flourished in England, producing the Gundestrup metal vessel.



The Yin Yang

ogy. The leading element of which was Tao Yu Yen. 340 c. 260 BC considered this universe to comprise five elements: wood, water, fire and

thought the universe was governed by the two complementary forces, yin (female and passive) and yang (male and active).

The first classical writer: Chü Yuan (c. 277) is traditionally described as the author of the earliest treatise on the first language of writing, the *Mo-wei-chi* (Chinese).

Theocritus (c. 270) wrote the *Idylls*.
Moschus (c. 270) wrote the *Idylls*.

The Colossus of Rhodes one of the Seven Wonders of the ancient world, was a huge bronze representation of the sun god Helios, erected between 292 and

The Indian vina, from which a wide line of instruments have evolved, the instrument is carried. Alexander's invading army

Euclid (c. 300) wrote the *Elements*.

yearling, after the century that followed Alexander's death, acquiring a great share of the museum. A second-century invention was based on the known principles of the Indian rope trick.

tern and wave. The ship was about 76m (250ft) high, with a 56m (185m) mast.

260-220 BC
In the first Punic War (264-241 BC) Rome built her first fleet, 100

and defeated Carthage, which expanded into Spain. Carthage continued between the

Hellenistic kingdoms

Ptolemy II

Bactria left the Seleucid kingdom and developed a combination of Greek and Buddhist

Chinese civilization



La Tène art shield

Ashoka
religion in the Mauryan Empire. The developing Shinto religion in Japan had a hierarchy of

goddesses. Amaterasu and her sister, Hime-no-hime, were the principal goddesses and each can be worshipped. In 270 BC, the Chinese Han Yu (c. 270 BC) taught that human nature was fundamentally evil and goodness required training.

A Latin literature emerged based largely on Greek.

Naevius (c. 270) wrote the *Comedies*.
Livius Andronicus (c. 270) wrote the *Comedies*.

Ennius (c. 270) wrote the *Comedies*.
Terence (c. 270) wrote the *Comedies*.

The Temple of Horus at Edfu in Egypt, begun in Ptolemy III (c. 270), was dedicated to the god Horus, a typical of Egypt.

The Hellenistic period

BC developed the sensuous possibilities of marble sculpture. The Hellenistic period of the bronze statues, from the *Laocoön* and the *Sleeping Heracles*, and the type of three-dimensional sculpture of 3rd century Greek sculpture.

The first keyboard instrument

Aristarchus (c. 270) wrote the *Comedies*.

Archimedes of Syracuse

views of floating bodies, made advances in mathematics and was the inventor of the screw.

used in Egypt to raise water.

The crossbow

The 3rd century BC in China. This weapon had a cocking and trigger mechanism similar to the modern crossbow.

220-180 BC
In the second Punic War Hannibal (247-183) invaded

but remained after Roman aggression in Spain c. 206. His alliance with Macedonia (215)

The Roman nobility
of the wealth from the new provinces, while smallholders suffered from military service.

Huang Ti

Italian silver coins



The Aphrodite of Melos

Mystery religions
in response to the stress of the second Punic War (218-201 BC). New gods, such as

Minor Cybele and Dionysus, gained a following. The introduction of the Stoic philosophy, with its emphasis on the development of mystical and

The Chinese Classical period came to a dramatic end with

Latin drama
Plautus (c. 255-184) who used

about c. 205 was his best play. **Terence** (c. 190-160) was his best work, much as a Greek

Town planning played an important role in Greek architecture. The classical market places of Ephesus

The Indian epic Ramayana

new date for multiple view figures. This figure is a source for the Roman *De Vita*. The Great Altar of Zeus at Pergamon was begun c. 170. The story of these figures is the battle of gods and giants.

A Greek hymn

A map of the world, c. 215-194, a Greek

A piston bellows

Glass blowing

Romans and

technology as a large vessel and dishes were now made

blowing the third century AD.

180-140 BC
Rome

Carthage
by a Roman army in the Punic War (247-141).

The Arsacid dynasty

Under Menander (c. 155-130) the Indo-Greek kingdoms reached over much of northern

The Han dynasty

Italian silver coins



Roman bust - old Republican

Within the Vedic tradition
yogic thought. Patanjali, four centuries of the yoga sutra rules dealing with transcendental

Shakti

The Indian epic Ramayana

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140-100 BC

Han emperor Wu Ti

118 BC
The Gracchus brothers

ymment and poverty
soccus, 57
the control of
wild and

The Seneca

Charlots

BC



Julius Caesar

100-60 BC

Cicero

attempts to gain a consulship by
force in 63 BC, defending the
trial of Publius Clodius Pulcher
public which depended upon no

Pompey 108-48 and Julius
Caesar

Celtic Britain was
between mainly warring tribes
Close trading contact was



The Great Stupa of Sanchi

60-20 BC

The Han dynasty

Julius Caesar

45. Cn was followed by
assassination in 44 by a
group of senators

Octavian (Augustus) 63 BC
27 BC to centralize power

Egypt

Julius Caesar invaded Britain
in 55 BC but retreated
Druids organized the

20 BC-AD 20

Augustus strengthened

Tiberius

became increasingly
powerful

Judea

The Kushite kingdom

Mexican lake houses

Large-scale tribal kingdoms

Emperor Claudius

The Fosse Way



Roman civil engineering the Pont du Gard, Nîmes

AD 20-60

Tiberius and Claudius

Jesus of Nazareth

Christian cult

Buddhism was accepted as the

Emperor Ming

Emperor Claudius

The Fosse Way



Greco-Roman balista

AD 60-100

Nero

Peter and Paul

Vespasian AD 69-79

Jewish religious revolt

Mongol invaders

Boadicea



Tung Chung Gu

Eclectic philosophy

Titus Lucretius

Paul of Tarsus

After the death of Paul

Pauline version of Christianity

Seneca the Younger

Pharaoh

The Arch of Titus

Stupa

Roman temples

Roman villas

Buddhist monks

Destruction of the Second Temple

Chinese science

Paper

Metallurgical developments of the Romans

Roman civil engineering

The city of imperial Rome

Water mills

A roller bearing

Only two furnaces both using

The Catalan iron furnace with

two-storey shaft furnace

Lucretius

The Julian calendar of 45 BC

and was inaccurate by a mere

minutes per year. This calendar

was not adopted until the

Primo Porta

Roman bas-reliefs

Ara Pacis

Thermae

Maison Carrée

Albani

Music notation

An Imperial Office of Music

Peruvian technology

Hipparchus

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Primo Porta

100-400 Early Christianity

Principal events

The Roman Empire reached its greatest extent under Trajan but further expansion became impossible due largely to pressure from barbarian migrations in the north and east, which brought increased economic and social instability to Rome. Various defensive measures were adopted, such as allying with the barbarians, but Rome remained weak because of the dependence of most emperors on the support of the army. The reign of Theodosius saw

the beginning of the close identification of the interests of the Christian Church and the empire in the east. Cultured and prosperous civilizations arose in India, where the Gupta set up a northern empire and the strong southern Chola kingdom traded with Rome. In Central America the Mayas entered their classic period, while China suffered from instability and lack of central authority.

100-30

Emperor Trajan expanded into Dacia. His heir Hadrian

fixed the eastern boundaries of the empire. He established his

travelling widely. Eastern policy was unpopular because it caused a drop in the import of slaves.

The Western Satrap dynasty

Hadrian

a wall from Seawall to Tyne 122-7. His large g brought pros

130-60

Emperor Antoninus Pius r 138-61 continued Hadrian's

The dispersion of the Jews followed the ruthless suppression of a Zealot revolt in Jeru

Migrating Goths

northern Black Sea coast. **Taoism** became popular in China, stimulated by military and

Han dynasty Buddhism

Urbicus

to Forth 140-42. The 28 **Albans theatre** was built 140-4

160-90

Plague returning from the wars with

Marcus Aurelius reign 80 marked the high point of Stoicism as the dominant philo

Marcomanni from Bohemia crossed the Danube 167 and were settled by the Romans in

The persecution of Christians

190-220

Prætorian scheming culminated in the establishment of a staged

administrative **Caracalla** r 211-17. expe

most free inhabitants

The Han dynasty in China

National events

Under Roman rule Britain was prosperous. Celtic civilization assimilated Roman culture and urban life flourished. Hadrian's Wall established a

permanent frontier in the north and British produce particularly woolle, brought trading contacts with the rest of the empire in Europe.

Hadrian

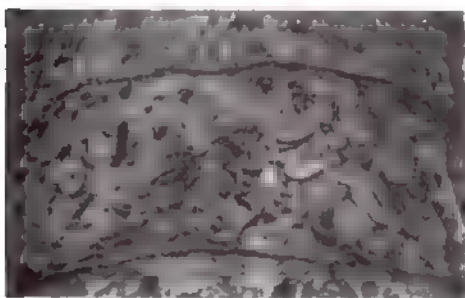
a wall from Seawall to Tyne 122-7. His large g brought pros

Urbicus

to Forth 140-42. The 28 **Albans theatre** was built 140-4

After Caladonians took the Antonian Wall concentrated on defending

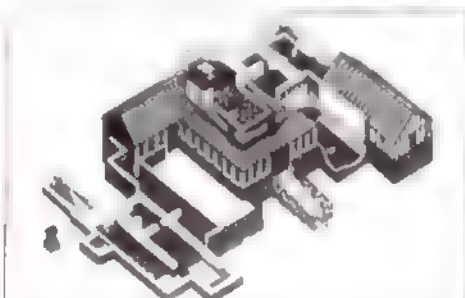
The Roman governor Albinus was low against **Severus** 196. When the divided Brita



Trajan's Column. Romans fighting the Dacians



Late Roman sculpture. Mithras slaying the Bull



Roman villa at Lullingstone, 1stc - 4thc

Religion and philosophy

The early Church clarified and developed a sophisticated theology in response to attacks from religions whose origins lay outside the Judean Christian tradition, including Gnosticism, Manichaeism, Montanism and Mithraism. By 400 Theodosius the Great had finally established Christianity as the religion of the empire but with the barbarian invasions began a long struggle against paganism. Missions were sent out to the Germanic

tribes, and those who were converted largely adopted the Arian form of the Christian faith. Under Pope Damasus the Roman see claimed primacy over the five patriarchates of Rome, Constantinople, Antioch, Jerusalem and Alexandria, basing its claim on the "Petrine" text. Buddhism began to influence the development of Hinduism in India and similarly affected religion and society in China.

Gnosticism

absorbed Christian ideas, giving

the scriptures forced the native versions of the Gospels of a universal Church.

The Mahayana school of Buddhism **arjuna** This school often known as

achieve nirvana through the development required from the on Buddhism.

Montanus

had not ended with the death

Buddhism reached China 1st century AD and began to 2nd century when it received

Origen

was the first to

Christian Gospels and Gospels study of the Bible as

Literature

With the diffusion of Christianity the scriptures began to spread in translation, notably in Latin, although fragments exist of translations into Gothic (mainly from the New Testament) made by Bishop Wulfila. The influence of the Gospels was literary as well as religious, setting the stage for the Christian allegorical treat

ment of pagan literature that was to dominate European literature until the 17th century. Homer, Virgil and Ovid were all interpreted in this way. Classical Latin literature petered out after AD 200. In China, paper (shih) was invented but took nearly a millennium to reach Europe, where papyrus gradually gave way to stitched parchment or vellum.

The Latin satirical tradition **Lucilius** **Juv**

counted the chief of the period up to the death of

Asvaghosa

that became the source for later studies of Buddha's life

The prose romance

Elements of science fiction **travels** 515 by a 1st writer **Lucian** c 115

Apuleius

Art and architecture

The Imperial and Hellenistic styles of Rome gradually lost ground, to be replaced in western Europe by the more mysterious and magic art of the Christian period. A recognizable Christian style in art and architecture had developed by the 4th century, by which time the empire was divided into east and west, prefiguring the lasting division between the Byzantine and Western Christian traditions in art into this world of changing imagery.

the barbarian invaders brought new decorative abilities and tastes which were also assimilated into the art of Rome. The Persian culture of the Sassanids and the Indian culture of the Gandhara region were influenced in part by Rome and this influence penetrated China during the late Han period, producing the basis for a recognizable style. Indian art flourished under the Guptas, during whose dynasty the Ajanta cave paintings were done.

Trajan's column

the emperor's military victories

The Pantheon c 118 is an architectural realization of the

Monumental stone tomb sculpture

Ho Ch'ung

trampling a barbarian

The Temple of Mithras

period with its sim

Temples were common throughout the periphery of the empire

Roman Imperial sculpture

Cambridge **Roma Sculpture from Gandhara**

is represented figuratively

Early Christian painting

The Synagogue of Dura Europos

several monuments in the Middle East

Buddhism

Music

Plain-song, a form of religious chant, developed in Europe. St Augustine, 354-430, warned of the "peril of pleasure" in this music, whose sweetly unaccompanied line would be the basis of

later European developments in polyphony (two or more related melodies played together) and harmony (chord progressions). Eastern music, with its generous sonnettes, reached its peak.

The Chinese **either** adopted by Buddhist monks from c AD 100

Menelaus

Hadrian's Wall

Surgical instruments developed in Rome as described

wheelbarrow

Ptolemy

Greek astronomer Ptolemy

Galien

Alchemists

of Cilicia

Alchemy

The obscur

Diocorides

work in the body Despite

softer stone

thought capable

in a gold

in which would

220-50
The murder of Alexander Severus in 235 instigated a period of civil war and control over the Roman Empire and local wars among the troops. Official persecution of Christians began under Diocletian in 303. The worship of living rulers became proof of loyalty. The new Sassanid Empire in Persia, founded by Artaxerxes I in 224-4, took Armenia from Rome in 232. The first written records of paper date from c. 230.

Many towns whose public area before reflected their position in the hierarchy of the empire.



Roman grain ship

Neoplatonism was founded by Plotinus (205-70), his belief in the superiority of ideas over material reality fostered the Christian conception of heaven, widely influencing Christianity and Islamic thought. Mithraism, a cult based on the recognition of the two powers of good and evil, became popular with Roman soldiers and received official patronage.

The Goths took Egypt in 257. A series of capable emperors from 260 began with Claudius II 'Gothicus' in 268, who defeated the Goths in eastern of the Balkans and ended the Gothic threat. Aurelian in 270-75 drove out the Alemanni who had invaded Italy but abandoned the Roman province of Dacia. China was nominally reunited under the Western Chin dynasty in 280.

Roman villa-based estates were a more efficient agricultural system than the former Celtic villages.

280-310
Diocletian in 284-305 divided the empire into eastern and western spheres. In 285, the western capital moved to Milan to defend the northern borders more easily. Rome recaptured Armenia and Mesopotamia in 297. The Mediterranean economy continued to collapse under heavy Roman taxation. c. 300, The Franks, Alemanni and Burgundians crossed the Rhine.

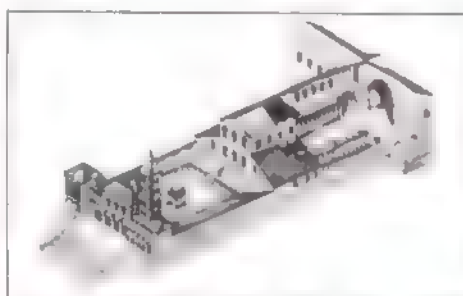
Cerealis' control of channel shipping enabled him to declare Britain independent in 285, but Constantine...



Relief at Naqsh-e Rostan

310-40
Constantine c. 285-337 became emperor. He granted religious freedom to all religions in 313. He founded Constantinople as his new capital in 330 and gave Christians a major administrative role in the empire. The Gupta dynasty united much of northern India under Chandragupta c. 320 and introduced a centralized administration. Culture flourished.

British woolen cloth was used by the emperor.



Early Christian churches, St Peter's, Rome

340-70
Julian III (363) tried unsuccessfully to organize a pagan Church and campaigned against Christians. The Persians captured Mesopotamia in 364. Samudra Gupta, the Indian emperor, conquered Bengal and Assam and broke the power of the Kshatriya rulers. This marked a turning point in the history of the Gupta dynasty. The Pallava dynasty was set up in southern India. Japan conquered Korea in 390.

Theodosius expelled an invasion of Persians and Sassanians in 369. Luxury products found in Rome suggest the wealth of the empire.

370-400
Roman absorption of the Germanic tribes was resulting in the Visigoths. The Visigoths crossed the Danube in 370 and were settled as foederati in 378. Theodoric the Great (474-95) ruled the Visigoths. A Vandal kingdom was founded in North Africa. Christianity received official support from the emperors. Persian power was at its zenith under Shapur II (309-79).

The Romans began to withdraw from Britain in 383 after repelling a second barbarian invasion. Christianity was popular among the upper classes.



Constantine the Great

Manicheism, founded by Mani (216-78), a dualistic religion combining the teachings of Zoroastrianism, Buddhism, and Christianity. It was spread from Europe to China. Mani held that knowledge of oneself and God qualified for salvation. It was a secret religion. The soul had to be kept pure from worldly desires. It was a dualistic religion. The soul had to be kept pure from worldly desires.

The Desert Fathers in Egypt, for example, the early Christian monastic orders. They included St Anthony (260-355) who rejected a group of hermits in 305 and St Pachomius (c. 290-340) who founded many communities. They worked together in the desert. They worked together in the desert.

At the Council of Nicea in 325, called by Constantine, the Great, a group of bishops from all over the world issued a creed stating that God and Christ are of one substance. The Arianist heresy, stating that only God was divine and that Christ was created, was condemned by the Council. The Arianist heresy was condemned by the Council.

The Latin Fathers of the Church, Jerome (c. 347-420) and Ambrose (340-97) began the study of the Bible in Latin. They wrote the Vulgate. They wrote the Vulgate. They wrote the Vulgate.

The Nestorian Church continued to develop but was active in Asia Minor. The spread of Buddhism in China was greatly speeded by Kumarajiva (344-413) who translated Mahayana Buddhist texts from Indian into Chinese. Theodosius the Great (379-95) expelled Arianism and linked the Christian Church with the Roman state.

Early Tamil literature associated with the kingdom of southern India dealt with the themes of royalty, love, and the fight. The earliest works are the Eight Anthologies and the Ten Songs, both written c. 100-500 by the third of the legendary Sangam literary academies which are said to have lasted for thousands of years.

Valmiki (c. 300-300) was the author of the Ramayana, a poem that tells the story of the life of Rama. The work is a collection of eight books dealing with the life of Rama. The work is a collection of eight books dealing with the life of Rama.

A more uninhibited and individualistic writing style evolved in China with Taoism and Buddhism. The poet Lu Chi (c. 300) was the first to write in this style. The poet Lu Chi (c. 300) was the first to write in this style.

Runes were the early Germanic script used for magical charms and runes. One of the earliest runes was the 'Hagafors' rune, which was used for magical purposes. The 'Hagafors' rune was used for magical purposes.

The golden age of classical Sanskrit literature with the rule of the Guptas (320-550). The poet and dramatist Kalidasa (fl. 4th-5th) excelled in the epic genre of the Ramayana. The childhood and adolescent years of Saint Augustine (354-430) before that time when he became a Christian convert in 387 is described in his Confessions (397-400).

The golden age of classical Sanskrit literature with the rule of the Guptas (320-550). The poet and dramatist Kalidasa (fl. 4th-5th) excelled in the epic genre of the Ramayana. The childhood and adolescent years of Saint Augustine (354-430) before that time when he became a Christian convert in 387 is described in his Confessions (397-400).

Realistic portraiture flourished throughout the Roman Empire. Paintings, called Etruscan, were made of terracotta. The Etruscan style was a blend of Greek and Roman art. The Etruscan style was a blend of Greek and Roman art.

Mexican art flourished on the coast of Mexico (250-500) and was a blend of indigenous and foreign influences. The art was a blend of indigenous and foreign influences. The art was a blend of indigenous and foreign influences.

Roman architecture was at its most mature in the early 4th century with the Palace of Diocletian at Spalato and the Baths of Trajan at Rome. The art was a blend of indigenous and foreign influences. The art was a blend of indigenous and foreign influences.

The old church of Saint Peter in Rome was built in 130 but destroyed during the Renaissance. The first religious building designed specifically for the needs of Christian worship is the church of Saint Peter in Rome. The church of Saint Peter in Rome is the first religious building designed specifically for the needs of Christian worship.

Naish Ho is a large rock sculpture of a seated Buddha figure. The figure is seated in a meditative posture. The figure is seated in a meditative posture. The figure is seated in a meditative posture.

Roman art became increasingly Hellenized as with the victory of the Stoics. The art was a blend of indigenous and foreign influences. The art was a blend of indigenous and foreign influences. The art was a blend of indigenous and foreign influences.

Heroic poems were sung among the Germanic tribes. The poems were sung to the accompaniment of harps. The poems were sung to the accompaniment of harps. The poems were sung to the accompaniment of harps.

The harp, Europe's main musical instrument, was regarded as a precious possession. The harp was regarded as a precious possession. The harp was regarded as a precious possession. The harp was regarded as a precious possession.

Hippology, the science of breeding and managing horses, flourished under the Romans. The science of breeding and managing horses flourished under the Romans. The science of breeding and managing horses flourished under the Romans.

Psalm, used by the Christian Church, was a form of poetry. The psalm was a form of poetry. The psalm was a form of poetry. The psalm was a form of poetry.

Persia under the Sassanid dynasty (224-650) was a powerful empire. The Sassanid dynasty was a powerful empire. The Sassanid dynasty was a powerful empire. The Sassanid dynasty was a powerful empire.

Chinese music was further enriched by foreign influences. The music was further enriched by foreign influences. The music was further enriched by foreign influences. The music was further enriched by foreign influences.

In China, the use of paper facilitated writing and printing. The use of paper facilitated writing and printing. The use of paper facilitated writing and printing. The use of paper facilitated writing and printing.

In China, Huang Fa wrote a treatise on the use of paper. The treatise was a treatise on the use of paper. The treatise was a treatise on the use of paper. The treatise was a treatise on the use of paper.

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Mathematics developed by the Chinese. The mathematics developed by the Chinese. The mathematics developed by the Chinese. The mathematics developed by the Chinese.

Mayan calendars, superior to the Greek and Roman, were developed by the Mayans. The calendars were developed by the Mayans. The calendars were developed by the Mayans. The calendars were developed by the Mayans.

Chinese astronomers of the 4th century believed in the theory of the five phases. The astronomers believed in the theory of the five phases. The astronomers believed in the theory of the five phases. The astronomers believed in the theory of the five phases.

Diophantus of Alexandria (c. 250) wrote the Arithmetica, a treatise on algebra. The Arithmetica was a treatise on algebra. The Arithmetica was a treatise on algebra. The Arithmetica was a treatise on algebra.

Chinese mathematical books described the Pythagorean theorem. The books described the Pythagorean theorem. The books described the Pythagorean theorem. The books described the Pythagorean theorem.

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700-1000 Islam reaches India and Spain

Principal events

Invasions from the Muslims in Spain, Vikings in the north and Magyars in the east destroyed much of Europe's culture and economic strength, though Charlemagne's conquests east of the Rhine brought Germany within the European orbit.

The Muslim world recoiled from Spain to Afghanistan by 736, and the papacy, although relatively isolated by Muslim control of the Mediterranean, used its new status for political ends, reviving the

Roman ideal by crowning its main supporters Holy Roman Emperor. Royal authority in Europe at this time was often precarious, based only on the personal allegiance of a provincial nobility whose power was strengthened by the need to defend the kingdom's frontiers.

In China constant warfare weakened the Tang armies and the Sung dynasty gained control while in Japan the Heian period marked a moment of transition to a society run on feudal lines.

National events

A single king emerged and ruled England until Viking invasions took over much of eastern England, where a Danish society developed. Although

monastic culture declined, secular learning flourished under Alfred, 848-99, and town life with a money economy recovered in spite of the Vikings.

700-30

Pope Gregory II r 715-1

The Umayyad Arabs

Leo III

The second Aulic, 717-18, and began

asserting the emperor's authority

The Nara period in Japan

730-60

Charles Martel c 688

stopped the Muslim advance in

Al Mansur r 754-75 founded the

The Gurjara-Pratihara

760-90

Charlemagne

800-814

814-840

840-858

858-877

877-884

884-899

899-911

911-929

929-946

946-961

961-987

987-1000

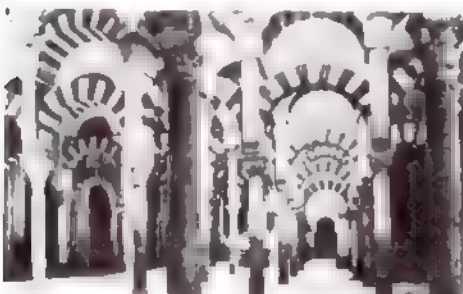
790-814

Charlemagne was crowned

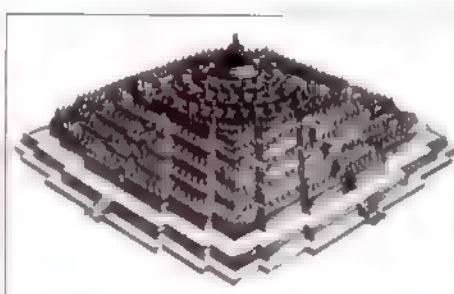
The Bulgarian kingdom reached

Emperor Kammu r 781-806

185, in which it



Islamic architecture Mosque at Cordoba, 8thc interior



The stupa of Borobudur, Java, 8thc-9thc



Crown of Charlemagne



Carolingian church, c.800

Religion and philosophy

The Christian Church continued the struggle to assert its authority over the secular powers of the Holy Roman and Byzantine empires while the assertion of the primacy of the Roman pope over the Eastern Church led to an increasing separation of Eastern and Western forms of Christianity. In the West, papal sanction of Charlemagne's empire brought the Church additional prestige. The practices of the clergy, however, were becoming increasingly lax,

and would eventually prompt the Cluniac reform movement.

In the Islamic world, the Sufi movement was founded and grew, emphasizing an austere mysticism in response to the rational ideal and the reason of orthodox Islam.

The spread of Buddhism within Japan continued and won official support.

Mayan religion reached its most elaborate hierarchical form at the height of the empire's power in Central America.

Iconoclasm

Iconoclasm as a movement began 726 when the Byzantine emperor Leo III prohibited the use of icons at churches, claiming the emperor was God's vice-regent on earth. A period of severe repression

The Islamic religion reached its

Indian in 712 and Spain in 7

The Classical period in Mayan culture

In Central America reached its height. Mayan cosmology saw the earth as a cross, and the Mayans placed their gods with sacrificial

Todotzin in 743-52

The new Anglo-Saxon humanism

Alcuin c 732-804 with

Emperor Charlemagne 78

Carolingian Renaissance

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Literature

Chinese literature of the Tang dynasty reached its finest form in the evocative poetry of Li Po, Tu Fu and Wang Wei in the 8th century. With the later decline of the dynasty social criticism and an elegiac mood appeared. Chinese influence on Japanese literature gave way to new vernacular forms of Japanese verse and prose. The spread of Islam led to

more sophisticated themes in Arabic poetry and to an extension of Arabic influence into Persian literature.

The epic saga took shape in Norway and Iceland. In England scholastic Latin developed and the growing power of Anglo-Saxon vernacular literature showed itself in the saga of Beowulf. In religious poetry and in the Anglo-Saxon Chronicle

The Venerable Bede 673

English Church and People

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Nearly 49,000 poems survive

from China's golden age of

poetry the Tang dynasty

Tu Fu 712-70 showed his

mastery of imagery

Li Po 701-62 who wrote of wine and com

panionship Wang Wei 699-759

Wang Wei 699-759

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Beowulf the greatest surviving

Anglo-Saxon epic poem dates

from the period between 700

and 1000. A violent

war of struggles against

dragons and monsters of the sea

is based on North

European

legend with

and religious significance

added by the Anglo

after the Ang

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A rebirth of European learning

took place under Charlemagne

712-814 who encouraged the

copying of manuscripts. His

copy was written by the

German monk Einhard 775-840

Einhard 775-840

Einhard 775-840

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Einhard 775-840

820-50

The Carolingian Empire was divided into three after the Treaty of Verdun in 843.

Scandinavian Vikings having founded Kiev and Novgorod, absorbed Byzantine culture and religion through trading contacts c. 850.

Al-Mamun the Great (813-33) set up a House of Knowledge in Baghdad and encouraged the most glorious epoch of the Abbasid dynasty.

The Abbasid capital moved to Samarra in 836.

500-800

Frequent invasions and the weakness of the monarchy gave new power to the provincial nobility in the Carolingian states and in Italy caused a decline in papal authority.

Roman and Byzantine Christianity officially split in 800.

Basil I of Byzantium (867-88) attacked the Muslims in Mesopotamia and established a revival of Byzantine.

The Bulgarians were converted to Christianity in 865.

800-910

Urban development in northern Europe stimulated by long periods of peace and order was disrupted by Norse invasions c. 900.

The Bulgarians waged war steadily with Byzantium under **Symeon I** (893-927).

The **Chola** dynasty displaced the Pallavas in India c. 850.

The **Tang** dynasty in China fell c. 907 and was followed by a period of weak imperial authority and constant barbarian invasions.

910-40

Rolls (c. 900-912) founded an independent dukedom of Normandy.

Henry I (919-36) became the first Saxon king to rule a unified Germany, whereas the French monarchy was weak.

Umayyad culture reached its zenith in Spain under **Abd al-Rahman III** (912-5).

The rise of a military class in Japan (samurai) first came to the provinces (935-41).

940-70

Otto I (c. 940-70) secured Magyar invasions at the battle of Lechfeld (955) and became the first Holy Roman Emperor in 962.

The **Northern Sung** dynasty founded in 960 brought a moderate humanism to Chinese government, social organization and thought.

A Muslim **Ghaznavid** dynasty grew up in Afghanistan c. 960.

970-1000

Hugo Capet (c. 987-96) became king of France and reasserted royal authority over the nobility, pope and **Venice**.

Viking invasions of Europe reached their peak c. 1000, threatening southern France and Italy.

Basil II of Byzantium (c. 976-1025) took Greece from the Bulgarians c. 980.

Egbert became king of all England in 928. The Danes sacked London, a small market and trading town in 938.

Alfred of Wessex organized English opposition to the Danes and won peace by ceding much of eastern England (the Danelaw) to their rulers.

Alfred stimulated the growth of learning and education. His son **Edward** (c. 925-75) reconquered much of the Danelaw.

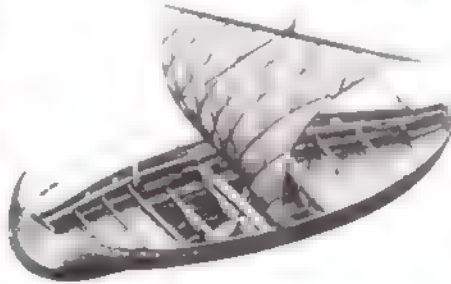
Athelstan (c. 925-39) consolidated the conquests, but permitted the survival of Danish settlement. **Local government** was organized in shires and hundred.

A **monastic** decline had set in with the Viking raids but c. 940 a revival began, first providing a useful network for spreading royal authority.

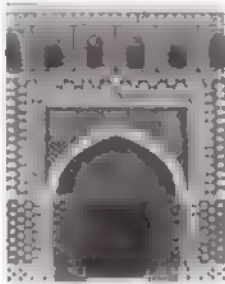
Danish attacks were a major factor in England in the reign of **Egbert** (c. 925-1016), but the monastic movement brought a slight revival to Winchester.



Arab gold dinar 9th-10thc



Viking ship



Islamic tomb facade, c 900



Arab manuscript showing preparation of perfumes

Ahmed ibn Hanbal (780-245) author of the **Sunni** branch of Islam, founded the most orthodox of the four schools of Islamic law, which holds that the Koran as interpreted by the Islamic community contains the answers to all moral questions. In 833 **Hanbal** was imprisoned for refusing to accept **Mutawil** (caliph) doctrine. **The Chanson** school of Japanese Zen Buddhism developed in China.

The **Fourth Council of Constantinople** was called in 869. It deposed **Photius** patriarch of Constantinople who had challenged the Pope's authority in the East, and re-stated Ignostus' teachings, thus ending the schism with Rome.

The **Photian schism** ended in 869. The Greek Church made a formal submission to Rome.

The **Abbey of Cluny** in France was founded 910, marking a revival of the monastic movement. It was the first of the **Clunian reform movement** began, which introduced the notion that the Church hierarchy had a responsibility for a universal good and forming the basis of widespread attack on the secularization of the Church.

Sufism, a mystical literary and philosophical movement, emerged in the 9th century.

Saladin (c. 1137-93) was a Muslim leader who defeated the Crusaders and recaptured Jerusalem in 1187. He was a great warrior and a great statesman.

Se'adiah ben Joseph, head of the Jewish academy in Babylon, is known as the father of Jewish philosophy. He defended orthodox Judaism by gathering a school of one God against the Greek dualism. He also published the **Sefer ha-Korot** (Book of Origins), a history of the Jewish people from the time of Adam to the present.

The Vikings, whose incursions into the Christian world reached a peak c. 1000, worshipped gods similar to those of the Germans. There were two tribes of gods: the **Aesir** (the gods) and the **Vanir** (the spirits). **Odin**, who was the chief of the gods, was worshipped by them in a pagan way. He was the god of war and death, and was also the god of wisdom and poetry.

Arabic literature had a strong tradition of oral poetry, which emerged as the **Arabic Empire** (632-1517). The lyrics of **Abu Nuwas** (c. 750-815) reflected the town life of the capital, while **al-Buhārī** (c. 810-855) wrote the famous **Ar-Risala** (The Book of Letters). **Abu Tammam** (812-870) wrote the famous **Ar-Risala** (The Book of Letters).

Vernacular literature (both prose and verse) was rising in Germany and Britain, best shown in the popular narrative style of the Anglo-Saxon Chronicle, a history begun during the reign of **Alfred the Great** (c. 871-90). The **Arabic** **Ar-Risala** (The Book of Letters) was written by **Abu Tammam** (812-870) and was the first of a series of books on the subject of the development of the Arabic language.

Classical Japanese literature emerged in the **Heian** period (794-1185). The **Ar-Risala** (The Book of Letters) was written by **Abu Tammam** (812-870) and was the first of a series of books on the subject of the development of the Arabic language.

Lyric and elegiac Anglo-Saxon poetry survives in a manuscript known as the **Exeter Book**. This includes individual poems, such as **The Wanderer**, **The Seafarer**, and **The Ruin**, and a collection of poems known as the **Ar-Risala** (The Book of Letters).

A critical note had entered **Chinese poetry** of the 9th century in the **Ar-Risala** (The Book of Letters) of **Po-Chun** (772-842). With the Confucian doctrine of the Tang dynasty and the unity of the 10th century, noting a softened the original structure and colloquial language of Chinese folk verse, usually sung to a tune.

A revival of Persian poetry after the Arab conquest of Iran (632-1517) produced the **Ar-Risala** (The Book of Letters) of **Firdausi** (c. 940-1020), who wrote the famous **Ar-Risala** (The Book of Letters) in verse that became a model for Arabic poets. **An Anglo-Saxon historical poem** (c. 900-950) the **Ar-Risala** (The Book of Letters) was written by **Alfred the Great** (c. 871-90).

The overwhelming size and grandeur of **Mayan religious architecture** can be seen in the **Pyramid of the Sun** at San Juan Tototoc, which rose from a base of over 21 km (13 mi) in diameter to a height of 66 m (216 ft).

The **Middle Byzantine** age (867-1025) saw a second flowering of Byzantine art with the energetic reorganization of the emperor's church. The mosaic of the **Madonna and Child** in the church of **St. Sophia** (c. 867-1025) is a masterpiece of the Middle Byzantine style.

Phnom Bakheng became the new administrative and religious center of Cambodia during the Angkor period (802-1431). The temple's design has a single base supporting a series of terraces.

During the **Chola** period (907-1200) in India, improved metal casting techniques enabled the Cholas to create a series of magnificent images, especially in the form of the complex and elegant figures of the dancing Shiva.

An **Imperial Academy** of painting was founded in western China during the **Tang** (618-907) and **Song** (960-1279) dynasties. The **Ar-Risala** (The Book of Letters) of **Po-Chun** (772-842) was a critical note that entered Chinese poetry of the 9th century.

Romanesque architecture after 950 possessed a grandiose quality which derived partly from the use of stone vaults below the roofs and partly from a more or less complete of the church which developed in the 10th century. The **Ar-Risala** (The Book of Letters) of **Firdausi** (c. 940-1020) was a model for Arabic poets. **An Anglo-Saxon historical poem** (c. 900-950) the **Ar-Risala** (The Book of Letters) was written by **Alfred the Great** (c. 871-90).

Phonetic notation, which originated in Europe in the 9th century, first consisted of marks, like accents over syllables to denote sense and later in pitch. They did not indicate how much.

Organum, the practice of singing a note of music at intervals of a fourth or fifth above or below a psalm tone, appeared in the 9th century. This was a primitive polyphony.

Pitch notation was required to communicate to singers the relationship of two parts in an organum. A famous work called **Hucbald** (c. 900) first used letters to denote pitch.

Organs were installed in abbey and cathedral in Europe by the 10th century. They were used to support parts of the organum sung by the choir and followed the song lines.

The **tambura**, a 4-stringed instrument, was developed in India in the 10th century as a stringed accompaniment to the vocal instruments. The **Ar-Risala** (The Book of Letters) of **Po-Chun** (772-842) was a critical note that entered Chinese poetry of the 9th century.

Chinese temple music under the Northern Sung dynasty (960-1279) involved huge orchestras with instruments of the brass and mouth organs in an organum. The **Ar-Risala** (The Book of Letters) of **Firdausi** (c. 940-1020) was a model for Arabic poets.

Spanish metal mines were taken over c. 850 by the Moors, who also prepared pure copper by reacting its salts with iron - a primitive form of modern electrolytic methods.

Al-Razi, a physician and encyclopedist of 920, and **Al-Khindi**, a scientist and philosopher of 873, were exceptional in applying to alchemy and Aristotelian dogmas. They were the first to use the word 'algebra'.

Cotton and silk manufacture was introduced into Spain and Sicily by the Moors in the 9th and 10th centuries.

Cordoba (c. 900-1000) was a high center of Islamic science in the 10th century under **Abd al-Rahman III** (912-5). **Optical lenses** of four kinds were described by **Thales** (c. 600-500) and **Chilias** (c. 900).

The **alchemist**, an alchemist for the first time, was illustrated in Arab books of this time. The **Ar-Risala** (The Book of Letters) of **Po-Chun** (772-842) was a critical note that entered Chinese poetry of the 9th century.

The windmill (marked Muslim) began from Persia in the 10th century. **Mining in Christian Europe** (c. 1000-1100) was the first of a series of books on the subject of the development of the Arabic language.

Al-Farabi (c. 850-950) wrote a summary of **Prothematic** astronomy studied in Europe until 1600. **Algebra** as a word first figures in the 10th century, meaning transportation in a letter by the Arab mathematician **Al-Khwarizmi** (c. 850). The Arabs found their algebra on both Greek and Indian methods.

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1000-1250 The Crusades

Principal events

Europe now began to take the offensive, expanding geographically and economically, her population rising. A new spirit of confidence, epitomized by the cosmopolitanism of Norman culture, brought a series of attacks on the Muslims in Spain and in Syria, where the Crusades provided an aggressive outlet for the military nobility of the flourishing feudal system. The papacy reached the height of its power during the reign of Innocent III (1198-1216) in

spite of continuing opposition to the gradual concentration of its power both from within the Church and from secular rulers. In the 12th century Genghis Khan set up a Mongol Empire in China, swept across Asia and threatened Europe and North Africa, creating the largest empire ever known and bringing a new peace and unity to Asia in his wake. He did not, however, conquer India, where the various Muslim rulers built up their authority in the north.

National events

Attracted by English wealth the Danes and Normans invaded turning Anglo-Saxon society into a more flexible feudal system. Opposition to the king's

authority grew among the barons and found expression in Magna Carta, while industry and town life prospered, offsetting the decline of Anglo-Saxon culture.



Bayeux tapestry: William the Conqueror and companions

1000-25
Basel II

Canute

Mahmud of Ghazni Muslim
1000-1030

The Chola dynasty

Canute

reformed as king by
1016 and appointed
king of Denmark



The Great Church at Cluny

1025-50
William I

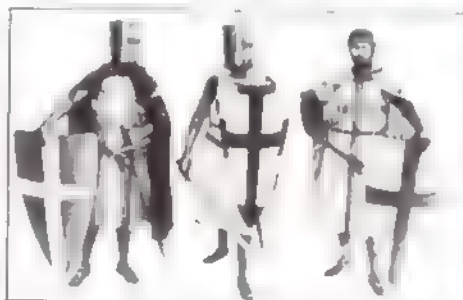
The Umayyad dynasty

Pope Leo IX
1059-68 for increasing reform
in the concept of papacy

Yaroslav of Russia
1019-54 brought
Russia to its peak
under his rule

Edward the Confessor

the Normans to the English



Crusading knights: Hospitaller, Teutonic Knight, Templar

1050-75
Ferdinand of Castile

1065-1068 recovered Portugal from
Muslims in 1068

William of Normandy
England in 1066, which is other
Norman's kingdom was established
in southern Italy in 1068

Finally ousting the Byzantines
who so-called Emperor and Arme-
nia in the 11th century, 1068-72

The Berber dynasty of Almoravids
built a kingdom in Algeria
in 1068

Asia Minor

with the Seljuks

1075-1100
Pope Gregory VII

1075-1080 and Emperor Henry IV in 1080
1085, when the respect for
the papacy was appearing to
be the papacy's appointment to
the throne

The Almoravids
1068-1147 in 1068, when
the papacy was appearing to
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1118-1120 in 1118, when
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Religion and philosophy

In the emerging struggle for power between the Church and the rulers of the new European states, the papacy succeeded in asserting its right to judge the morality of secular political actions at the same time as it took the lead in the reform movements within the Church.

In both the Muslim and Christian world, there was a revival of philosophy and a return to the Greeks, especially Aristotle. This was essential to the rise of scholasticism, an important

philosophical movement within the Catholic tradition based on the notion that dialectical reasoning as well as faith and revelation could illuminate the mysteries of Christian belief.

The Mahayana form of Buddhism, which allowed lay salvation, spread from China to Japan. There it evolved into a popular devotional cult centred on ritual chanting, in sharp contrast to the elitist monasticism of Zen, which was also emerging within Japanese Buddhism at this time.

Literature

Of the European literatures, French was the most influential in the development of new literary forms in the 11th and 12th centuries, producing the *chansons de geste* in written form, the Arthurian romance tradition and the lyrical vernacular poetry of the troubadours, all of which soon became international. The common heritage of warfare against the Muslims in Spain

was the subject of the French *Chanson de Roland* and also of the great Spanish epic *El Cid*.

In the Near East the solitary genius of Omar Khayyam flourished, while in Japan the late Heian period saw the emergence of undervalued Japanese styles including the literary diary of which *The Tale of Genji*, written by a lady at court, is the best-known example.

Saint Symeon

the New Testament

Pope Benedict VIII

1073-1074, when he was
elected pope and
reigned for two years

Buddhism

Pope Leo IX

The greatest of all Japanese

novels, *The Tale of Genji*, was
written by the courtier
Murasaki Shikibu in 1085

1085, when she was
elected to the post of
courtier

Yang Hsiu

Chen

Ottoman architecture

St Michael's

Hildesheim, designed as
the Bishop Bernward in 1011

Dravidian architecture

Temple of Shiva

1011-1012, when he was
elected to the post of
courtier

A cantus firmus

Guido d'Arezzo

1025-1030, when he was
elected to the post of
courtier

Alharaz

1011-1012, when he was
elected to the post of
courtier

Alharaz

1011-1012, when he was
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Alharaz

1011-1012, when he was
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courtier

Avicenna

1011-1012, when he was
elected to the post of
courtier

Buddhism

Pope Leo IX

Avicenna

1011-1012, when he was
elected to the post of
courtier

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Avicenna

1011-1012, when he was
elected to the post of
courtier

The edict of Worms

1024, when Pope Leo IX
was elected pope and
reigned for two years

Buddhism

Pope Leo IX

Avicenna

1011-1012, when he was
elected to the post of
courtier

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Avicenna

1011-1012, when he was
elected to the post of
courtier

The Dictatus Papae

1073, when Pope Gregory VII
was elected pope and
reigned for two years

Buddhism

Pope Leo IX

Avicenna

1011-1012, when he was
elected to the post of
courtier

Avicenna

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1250-1400 The Mongols unify Asia

Principal events

In Europe the crusading mentality gave way to a more flexible commercial society, epitomized by the rise of the Italian city states, the Hanseatic League of trading towns in the north and merchant and trade guilds. Kings came to depend more closely on popular support and called parliaments in which they consulted a wider section of the population, including townsmen. After 1300, the growth of population and prosperity

gave way to famine and plague which reduced many towns and introduced a period of retrenchment. The population decline, however, increased the bargaining power of the labourers, later enabling the peasantry to escape serfdom. The Mongols brought prosperity and trade to much of Asia, but their empire was fragmented by religious conflict. Their benevolent rule in China was replaced by the native Ming dynasty in 1368.

National events

Although Parliament was first called to voice responsible opinion in support of Simon de Montfort, c. 1208-85, its powers gradually grew as the

monarchy needed extra taxation for war. In spite of the ravages of the plague England became more prosperous as a result of war with France.

1250-65

Gold currencies were introduced.

Chinese silk was introduced.

Kublai Khan.

In England.

1265-80

Louis IX of France.

Mongol peaceful rule.

Marco Polo.

Rudolf of Hapsburg.

1290-1310

The defeat of the Mongol invasions.

The Danish Magna Carta.

Tripoli and Acre.

The Yuan dynasty.

Osman 1259-1276 founded.

patly in Buthyn in 1290.

The western Mongols.

he Khan's authority in 1295.

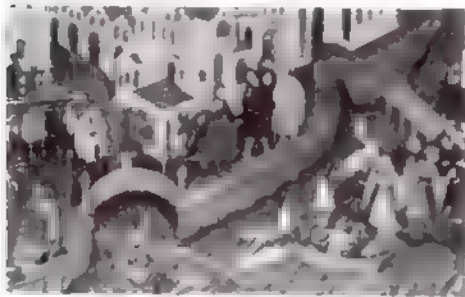
1295-1310

Venice.

A conflict over papal authority Philip IV 1276.

Military anarchy.

The African Empire of Mali.



The harbour of Venice, late 12thc.



Kublai Khan.



St Thomas Aquinas.



"S. Croce Crucifix", 1283.



The Black Death flagellants.

Religion and philosophy

The scholastic tradition in European philosophy, which sought to strengthen religious faith with the help of reason, culminated in the work of Thomas Aquinas. Duns Scotus and William of Ockham, who all looked to the work of Plato and Aristotle. Ockham, however, was also an empiricist, disputing the self-evidence of the principles of Aristotelian logic like the final cause and of Christian teachings like the existence of God.

The reign of Pope Boniface VIII marked the summit of papal power. Following the move to Avignon, 1305, the power of the papacy declined. The vernacular writings of Langland and Wycliffe, both Englishmen, foreshadowed the Reformation in condemning priestly corruption while advocating spiritual as well as social equality. The Islamic world produced its most original thinker, the scholar Ibn Khaldun.

St Thomas Aquinas

St Thomas Aquinas (1225-1274) was a Dominican friar and philosopher. He is best known for his work *Summa Theologiae*, which he began in 1265. In this work, he sought to reconcile Aristotle's philosophy with Christian theology. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

Roger Bacon

Roger Bacon (c. 1214-92) was a Franciscan philosopher and scientist. He was interested in science, magic, and mathematics. In 1272, he wrote *Opus majus*, attacking clerical influence. He was unusual in valuing experiment as a worthwhile and useful source of knowledge. He wrote *Opus minus* (1268-73) and *Opus tertium* (1268-73), which were also influential works.

Duns Scotus

Duns Scotus (1265-1308) was a Scottish philosopher and theologian. He was a member of the Dominican Order. He is known for his work on the philosophy of the soul and the nature of God. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

Pope Boniface VIII

Pope Boniface VIII (1253-1303) was the 118th pope of the Roman Catholic Church. He was a member of the papal family. He is known for his work on the philosophy of the soul and the nature of God. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

Literature 1250-1400

Italian writers of the early Renaissance, particularly Dante, Petrarch and Boccaccio, drew on the passionate and poetical faith of St Francis, the philosophical theology of Aquinas and the new lyricism of the French troubadours to forge a brilliant literature. Honoured by the princes of the Italian states, they explored in allegories, love poems and philosophical writings.

They explored the contradictions between classical humanism and Christian ideas. Italian vernacular poetry and prose was the latest to emerge among the Romance languages, but the work of writers such as Boccaccio opened the way to the vivid portrayal of contemporary life that marked the work of Chaucer in England and became characteristic of Renaissance literature.

Leuch

Leuch (1250-1300) was a French philosopher and theologian. He was a member of the Dominican Order. He is known for his work on the philosophy of the soul and the nature of God. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

The ghazal

The ghazal (1250-1300) was a form of poetry that originated in Persia. It was a form of poetry that was highly influential in the Middle Ages. It was a form of poetry that was highly influential in the Middle Ages.

One of the major figures in Catalan literature, Rayman Lull

Rayman Lull (1232-1315) was a Catalan philosopher and theologian. He was a member of the Dominican Order. He is known for his work on the philosophy of the soul and the nature of God. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

Marco Polo

Marco Polo (1254-1324) was an Italian explorer and merchant. He was a member of the Polo family. He is known for his work on the philosophy of the soul and the nature of God. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

Art and architecture

Art and architecture in Europe between 1250 and 1400 show their initial indebtedness to France, a nation that had achieved success both politically and artistically. German patrons sent for architects to build. In the French manner, while Italian masons grafted details from Rayonnant Gothic architecture onto buildings that were essentially the piled masses of Italian Romanesque. Everywhere much time, skill and money were

lavished to make buildings bigger and more ornate and objects more intricate and naturalistic, both in religious and secular spheres. The period saw the "birth" of Italian painting in the works of Cimabue, Giotto and Duccio and the beginnings of modern sculpture with Nicola Pisano and his son, Giovanni. Cultures in South-East Asia became more distinct, yet borrowed freely from each other. Comparatively little survives from India at this time.

The French Rayonnant Gothic style

The French Rayonnant Gothic style (1250-1300) was a style of architecture that was highly influential in the Middle Ages. It was a style of architecture that was highly influential in the Middle Ages.

The influence of the Four Great Masters

The influence of the Four Great Masters (1250-1300) was a style of architecture that was highly influential in the Middle Ages. It was a style of architecture that was highly influential in the Middle Ages.

Cimabue

Cimabue (1240-1300) was an Italian painter and architect. He was a member of the Cimabue family. He is known for his work on the philosophy of the soul and the nature of God. He was a strong advocate of the Catholic faith and his work was highly influential in the Middle Ages.

The frescoes by Giotto

The frescoes by Giotto (1267-1336) were a series of paintings that were highly influential in the Middle Ages. They were a series of paintings that were highly influential in the Middle Ages.

Music

Late medieval European music was increasingly complex and brilliant, requiring more exact systems of notation. The beginning of the Renaissance produced an easing of the Church's

nearly exclusive hold on serious composition and as patrons began to sponsor secular music compositions began to show signs of greater individuality and independence.

The motet

The motet (1250-1300) was a form of music that was highly influential in the Middle Ages. It was a form of music that was highly influential in the Middle Ages.

Notation

Notation (1250-1300) was a system of writing music that was highly influential in the Middle Ages. It was a system of writing music that was highly influential in the Middle Ages.

In China

In China (1250-1300) was a style of music that was highly influential in the Middle Ages. It was a style of music that was highly influential in the Middle Ages.

The madrigal

The madrigal (1250-1300) was a form of music that was highly influential in the Middle Ages. It was a form of music that was highly influential in the Middle Ages.

Science and technology

European trade and industry, although violently arrested in the mid 14th century by the Black Death, expanded rapidly in the first century of this period. Italian galleys carried cargoes of glass, silk and finished metal goods to northern Europe and elsewhere, returning laden with textiles from the Hanseatic cloth towns and metals from the mines of central Europe. Intellectual life, including that of the newly founded universities of Oxford and Paris, was also vigorous. Although in

science Scholasticism was still the rule, signs of a breakthrough to a more experimental approach began with the works of Oresme and Buridan in Paris and William of Ockham in England, whose ideas conflicted with those of the scholastic's ultimate scientific authority, Aristotle. By the end of the period Arab science was limited to the teachings of a few wandering scholars, and China, the home of accurate scientific reasoning and technology, had declined due to an unwieldy bureaucracy.

Gold florins

Gold florins (1250-1300) were a form of currency that was highly influential in the Middle Ages. They were a form of currency that was highly influential in the Middle Ages.

Commercial fishing

Commercial fishing (1250-1300) was a form of industry that was highly influential in the Middle Ages. It was a form of industry that was highly influential in the Middle Ages.

Spectacles

Spectacles (1250-1300) were a form of technology that was highly influential in the Middle Ages. They were a form of technology that was highly influential in the Middle Ages.

Starches

Starches (1250-1300) were a form of technology that was highly influential in the Middle Ages. They were a form of technology that was highly influential in the Middle Ages.

1400-1500 Printing and discovery

Principal events

In spite of a generally static economic climate the move towards national sovereignty increased at the expense of papal authority. The process of the consolidation of the European states continued and the power of the monarchs over the nobility grew gradually with the help of ostentatious artistic patronage and ambitious foreign wars. In Spain, united under Ferdinand and Isabella, the Moors were finally expelled and Ivan the Terrible established the power of Moscow.

National events

Unstable royal authority resulted in civil war: the Wars of the Roses. Traditional feudal ties were breaking down and a strong independent

Byzantium fell to the Ottoman Turks in 1453, closing the eastern Mediterranean to Christian traffic, but European expansion began to the west as the Spanish and Portuguese thrones sponsored the exploration of alternative routes to India round the coast of Africa. In China, the Ming dynasty made contact by sea with India and Africa and fought to protect its weak northern frontiers.

yeomanry emerged. Although Henry Tudor introduced few innovations, his reign prepared the way for the later assertion of royal authority.

1400-10

Tamerlane's victory at Angora in 1402 brought temporary disorder to the Ottoman Empire. **Chinese naval expeditions** to India and Africa for commercial and military prestige.

Burgundian ambitions in a French civil war with the Armagnacs in 1404.

Venice seized Vicenza (Padua and Verona) to become the dominant power in northern Italy. **Florence won access to the sea** by buying Pisa in 1405.

Henry IV / 1399-1411

whose seizure of power had relied on Parliament, supervised his expenditure.

1410-20

Mehmet I / 1413-21 reunited the Ottoman Empire and consolidated power in the Balkans. **Henry V of England** / 1413-22 captured Normandy 1417-19 after his victory at Agincourt in 1415.

The papal schism was ended at the Council of Constance 1414-17, which Huss 369-15 the Bohemian religious reformer was burnt for heresy. **Henry the Navigator** 1394-1460 began his systematic exploration of the African coast.

Henry V / 1413-22 united Parliament and the country, defied his nobles' appeal for a withdrawal from France.

1420-30

The Bohemian Hussites under **John Ziska** / 1370-1424 were defeated in a series of imperial crusades 1420-53.

Henry V of England was recaptured as he led to the final triumph 1420. **Joan of Arc** c. 1412-31 then inspired a new French national unity in support of Charles VII / 1422-61.

Peking became the Ming capital in 1421. **Murad II** / 1421-51 led an attack on Constantinople in 1422.

The weakness of Henry VI / 1422-61 intermittently resulted in a lapse in the activity of nobles and factions.

1430-40

Alfonso V of Aragon / 1416-58 can only hold Italy and Asia Naples 1436.

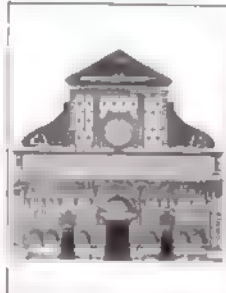
The banking and wool merchant Medici family entered Florence 1434-54. **Hapsburg control** of the Holy Roman Empire became virtualy hereditary with **Albert II** / 1438-1.

John VIII / 1425-48 of Byzantium inspired serious opposition by accepting the primacy of the pope in 1454.

The rise of "bastard feudalism" reflected the short-term political interests of the rising knightly classes.



"David" by Donatello



Facade of S. Maria Novella



The conquest of Constantinople by the Turks



Gutenberg's printing press



Latin manuscript, 14th-15thc.

Religion and philosophy

The relationship of Church and state was a major subject of controversy in 15th-century Europe, while the corrupt practices and moral laxity of the established religious orders came under attack. Reformers and critics of religious authority spelt out many of the themes that would be elaborated in the Protestant Reformation of the next century. Savonarola, an Italian monk, denounced corruption in Florence and the abuse of political power, calling for a regeneration of spiritual values and a steadfast devotion to asceticism.

In Bohemia the Hussites identified religious reforms with Bohemian nationalism while humanist writers in Italy, England and Holland argued for the separation of religious and secular law and the freedom of conscience of the individual. In another sense the power of the universal Church was challenged in Spain where the crown set up the Spanish Inquisition.

Literature

Compared with the vitality and initiatives of Boccaccio and Chaucer, European writers of the early 15th century produced less distinctive work. Learning rather than literature held sway and the revival of interest in classical studies led by the Humanist scholars in Italy had its main impact only after 1484, when the development of printing by Gutenberg in Germany

Art and architecture

both ecclesiastical and secular, K spread rapidly to other parts of Italy and culminated at the end of the century in the masterpieces of Mantegna, Botticelli, Bellini, Leonardo, Michelangelo and Bramante.

The Gothic style in architecture still flourished even in Italy and took new forms with the Perpendicular style in England, while International Gothic brought a new realism to European painting and sculpture.

Music

European music was dominated by the brilliance of the Franco-Flemish composers, the first great musical school. The Church favoured an international style of music and would

Science

Important changes occurred in the economic and industrial organisation of Europe. The Hundred Years War ended and with the Renaissance feudal methods of exchange gave way to more dynamic systems of trade. Technological change in agriculture, mining, textiles and glassmaking continued, bringing a steady expansion of industry. The breakthrough of the century was the creation of Gutenberg's book printing industry at Nuremberg. Ships and navigational

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The Chinese emperor Ch'eng-tsu / 1403-24

sponsored the publication of an 11,095-volume encyclopaedia in 1403.

The Council of Pisa 1409

Schism in the papacy. This had been ended by the Council of Constance 1414-17.

Avignon as a war cemetery, backed by the empire and France. **John XXII** / 1316-34 was the last pope to reside in Avignon.

The Mabynogion collection of Celtic tales and stories

was preserved in the Welsh Red Book of Hergest c. 1375.

The International Gothic style

introduced a new realism into the painting of a costume and animals placed in the wings of the atmosphere at Dijon 1399, by Melchior Broederlam c. 1410. Gothic and Renaissance styles were linked in the bronze doors of the Florence Baptistery sculpted by Lorenzo Ghiberti 1378-1455 from 1403 to 1452.

Burgundian sculpture

was characterised by the 'Well of Moses' 1401 by Claus Sluter of 1406.

Under the Ming dynasty 1368-1644

material was played on the zither and lute modulated for special effect.

Technical treatises on military engineering and ballistics

abounded in the early 15th century, especially in Germany and Italy. Among the most famous was the *Book of the Art of War* of 1406 by Conrad Kyeser, a German Archimedes screw used for lifting water in Dutch.

Perspective

Linear perspective was first employed in the early 15th century by Filippo Brunelleschi 1377-1446.

Pope Martin V / 1411-1431

ended the papal schism. Schism ended the papacy permanently in 1420 and consolidated.

John Huss / 1369-1415

a Bohemian follower of Wycliffe and the papacy for the sale of indulgences, absolving him from sin, and urged a radical interpretation of the Bible. He denied the infallibility of an immortal pope and claimed the supremacy of the state over the Church.

Miracle plays based on biblical stories of the lives of the saints

were created in popular style in England and Europe.

John Lydgate / 1370-1401

English translator of Chaucer and Boccaccio wrote the *Troy Book* and *Boke of the Shephard* c. 1420.

Perez de Guzman / 1376-1460

Spanish historian and poet, examined the theory of history and role of the historian.

The Duc de Berry commissioned the 'Les Très Riches Heures' c. 1415

from the Limbourg brothers. His expensive patronage included the less known *Très Belles Heures* and he built twelve elegant castles.

The design for Innocent's (Foundling) Hospital in Florence 1419

by Filippo Brunelleschi 1377-1446 began the architecture Renaissance. Italy and Spain shed its medieval superstition as one of the 'new' Renaissance architects.

Composers set parts to imitate each other

Polyphony related theories to the cantus firmus and counterpoint used rhythmically related tunes to combine the lute and rhythm of much polyphonic music.

Drift nets up to 110m (360ft) long

were used by the fishing industry in 1416. The drift net was improved by the Dutch in 1416.

Navigation was studied by its practitioners in the court of Henry the Navigator

1394-1460.

Nicholas of Cusa / 1401-64

wrote that the Earth and heavens revolved daily, a reflection of the accepted Ptolemaic astronomical system. He holds a dual belief upon philosophy, not only and not on other values.

Hollow-post mills

invented c. 1430 in Holland were a huge reduction of windmill which the size of the millstone was reduced and a shaft was passed from mill through a hollow post to drive machinery in a building below.

The Hussites were Bohemian

They were a heretical group who both the wine and bread of communion instead of bread and wine.

Thomas à Kempis / 1379-1471

wrote the *Imitation of Christ* 1475. This simple book emphasising the need for a moderate asceticism was considered a masterpiece. He was the most influential Christian work since the Bible.

Alain Chartier / 1380-1440

wrote the allegorical poem *Le Bar des Quatre Mars* c. 1379-1471. An attack on country life affected the political unrest in France after the defeat at Agincourt in 1415.

One of the masterpieces of the international Gothic style in Italy was the 'Adoration of the Magi' 1423

by Gentile de Fabriano c. 1370-1427.

Manuscript 1386-1466

an Italian and one of the greatest figures of 15th-century art executed his classic bronze masterpiece *David* c. 1435.

Donatello 1386-1466

an Italian and one of the greatest figures of 15th-century art executed his classic bronze masterpiece *David* c. 1435.

Flamish painting was revolutionised by Jan van Eyck

in 1441 who not only perfected an oil painting technique using brilliant colour and subtle effects.

Realism reached works as 'Adoration of the Magi' 1432

Secular polyphony developed

as part songs were combined with the four-part texture of sacred music. This is a style that survives in barbershop quartet singing in the United States.

Textile industries in the 15th century used dyes

such as indigo madder and saffron to colour black dyes were made at this time.

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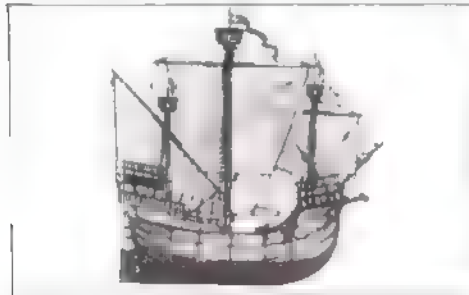
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1440-50
After losing Serbia the Ottoman sultan defeated a Hungarian crusade against him in 1444.
Charles VII master of a French standing army free from feudal obligations.
Wars in Italy caused a rise in diplomatic activity and an increase in humanist prestige c.1444.
Japan under Ashikaga rule since 1336 underwent a period of cultural decline until c.1446.

The flourishing woolen industry moved away from the towns where economic conditions made the guilds increasingly restrictive.



Carrack, 15thc

In 1440 **Lorenzo Velle** (1401-57) attacked papal indulgence grants by asserting that the Donations of Constantine, a spurious 7th-century document that supposedly granted universal temporal and spiritual powers to the papacy, were a forgery. As a humanist of the later Renaissance, Velle's ideas reflected the philosophical and literary movements of the period, emphasizing the works of ancient Greek and Roman authors.

Sanskrit literature which had existed in India since the 6th century was enriched by the Hindu version of Ramayana made c.1440 by K. R. V. and c.1485, and by the lyrical Song of Alankaara, Chandidas (1417-77).
In Spain the **Marquis of Santillana** (1398-1458) who was a humanist son-in-law, enriched the poetry.

In Italy **Domenico Veneziano** c.1400 appeared on the advanced stage of the Florentine painting in the St Lucy altarpiece (1435).
Rogier van der Weyden (1400-64), a major mid-15th-century Flemish artist, produced a more emotional style than van Eyck. His gradual depiction was perfect c.1437.
Fra Filippo Lippi c.1381-1469, a Florentine painter, was born in 1400.

The use of the interval of a third had been established in England since the 14th century in polyphonic music, but the interval of a third was not used in the 15th century until the 14th century.

Johann Gutenberg (1400-68) was a German printer who is credited with inventing the printing press in 1440. He was born in Mainz, Germany, and moved to Strasbourg in 1429. He was a member of the printing guild in Strasbourg and was involved in the printing of the Gutenberg Bible in 1455. He was also involved in the printing of the first printed book in Mainz, the 42-line Bible in 1468.

1450-60
The alliance of Florence, Naples and Milan 1450 in support of Medici supremacy secured the balance of power in the Italian states.
The fall of Constantinople c.1453 to the Ottoman rule.
Mehmet II c.1451-81 ended 1,000 years of Byzantine rule.
George Podiebrad (1420-71) ended the Bohemian religious wars with the century policies.
The Wars of the Roses on the throne of England and France began in 1455.

The widespread enclosure of common land to promote sheep farming began in 1453. A strong enclosure movement was developed.



Lorenzo de Medici

The Indian mystic Kabir (1400-1518) attempted to merge some aspects of the Hindu faith with the Muslim faith. He was a mystic who was originally a Hindu, but he was converted to Islam. He was a mystic who was originally a Hindu, but he was converted to Islam. He was a mystic who was originally a Hindu, but he was converted to Islam.

Medieval French verse forms were infused with vigour and brilliant realism in the 15th century. The French poet, Francois Villon (1431-63), was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris.

The study of perspective by Leon Battista Alberti (1404-72) was a major work in the history of art. He was a writer, architect, and philosopher. He was a writer, architect, and philosopher. He was a writer, architect, and philosopher.

National forms evolved in polyphonic music, with the influence of the French and the Italian. The French and the Italian were the two main influences on the development of polyphonic music in the 15th century.

Instrument-making in Europe began in the 15th century. The first printed book on the subject was the 'The Art of the Lute' by Giovanni Battista Monteverdi in 1496. The first printed book on the subject was the 'The Art of the Lute' by Giovanni Battista Monteverdi in 1496.

1460-70
Venice fought the Turks for control of the Mediterranean Sea. The Venetian Republic was a powerful maritime power in the 15th century.
Louis XI (1414-83) ended French unification by ending the Hundred Years War.
The Onin War (1467-77) resulted from a succession dispute among the Ashikaga in Japan.
The kingdom of Songhai in the Middle Niger region reached its zenith under Sonni Ali c.1464-92.

Edward IV (1461-83) was a Yorkist king who was a member of the House of York. He was a Yorkist king who was a member of the House of York. He was a Yorkist king who was a member of the House of York.



Lorenzo de Medici

The Unites Fratrum (Illuminated Manuscripts) were a collection of manuscripts that were written in the 15th century. They were a collection of manuscripts that were written in the 15th century. They were a collection of manuscripts that were written in the 15th century.

Scottish poetry flourished in the 15th century. The Scottish poet, Robert Henryson (c.1425-1508), was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris.

Leon Battista Alberti (1404-72) was a writer, architect, and philosopher. He was a writer, architect, and philosopher. He was a writer, architect, and philosopher.

The Franco-Flemish school included Guillaume Dufay (c.1400-74), Jean D'Eschamps (c.1430-95), and Josquin des Prez (c.1450-1521) who were the main composers of the school.

Clocks were first made in the 15th century. The first printed book on the subject was the 'The Art of the Clock' by Giovanni Battista Monteverdi in 1496. The first printed book on the subject was the 'The Art of the Clock' by Giovanni Battista Monteverdi in 1496.

1470-80
Ivan the Great (c.1462-1510) was a Russian ruler who was a member of the House of Rurik. He was a Russian ruler who was a member of the House of Rurik. He was a Russian ruler who was a member of the House of Rurik.

After Henry's death in 1470, Edward IV continued to rule as king. He was a Yorkist king who was a member of the House of York. He was a Yorkist king who was a member of the House of York.



'Venus' by Botticelli

Sir John Fortescue (c.1385-1479) was a English lawyer and philosopher. He was a English lawyer and philosopher. He was a English lawyer and philosopher.

Arthurian legend was unified in the 15th century. The French poet, Chrétien de Troyes (c.1135-1190), was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris.

The equestrian monument in the 15th century was a major work in the history of art. It was a work of art that was a member of the University of Paris. It was a work of art that was a member of the University of Paris. It was a work of art that was a member of the University of Paris.

The mass continued to be a major work in the history of art. It was a work of art that was a member of the University of Paris. It was a work of art that was a member of the University of Paris. It was a work of art that was a member of the University of Paris.

Relief was first made in the 15th century. The first printed book on the subject was the 'The Art of the Relief' by Giovanni Battista Monteverdi in 1496. The first printed book on the subject was the 'The Art of the Relief' by Giovanni Battista Monteverdi in 1496.

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The burning of Savonarola in Florence

Rodolphus Agricola (1454-1492) was a Dutch philosopher and theologian. He was a Dutch philosopher and theologian. He was a Dutch philosopher and theologian.

Humanist poetry emerged in the 15th century. The French poet, Chrétien de Troyes (c.1135-1190), was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris.

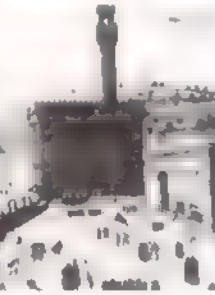
English Perpendicular Gothic was a style of architecture that was a member of the University of Paris. It was a style of architecture that was a member of the University of Paris. It was a style of architecture that was a member of the University of Paris.

Keyboard instruments improved in the 15th century. The first printed book on the subject was the 'The Art of the Keyboard' by Giovanni Battista Monteverdi in 1496. The first printed book on the subject was the 'The Art of the Keyboard' by Giovanni Battista Monteverdi in 1496.

The voyages of Dias, Vasco da Gama, Columbus and Magellan were major events in the history of exploration. They were major events in the history of exploration. They were major events in the history of exploration.

1490-1500
Spain captured Granada in 1492, ending the Reconquista. This was a major event in the history of Spain. It was a major event in the history of Spain. It was a major event in the history of Spain.

Henry VIII (1491-1547) was a English king who was a member of the House of Tudor. He was a English king who was a member of the House of Tudor. He was a English king who was a member of the House of Tudor.



Philippe de Comines

Philippe de Comines (1454-1511) was a French philosopher and theologian. He was a French philosopher and theologian. He was a French philosopher and theologian.

German satirical writing emerged in the 15th century. The German poet, Hans Sachs (c.1494-1567), was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris.

Renascence emerged in the 15th century. The French poet, Chrétien de Troyes (c.1135-1190), was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris. He was a poet who was a member of the University of Paris.

Mass printing began in the 15th century. The first printed book on the subject was the 'The Art of the Mass' by Giovanni Battista Monteverdi in 1496. The first printed book on the subject was the 'The Art of the Mass' by Giovanni Battista Monteverdi in 1496.

Leonardo da Vinci (1452-1519) was a Italian polymath who was a member of the House of Medici. He was a Italian polymath who was a member of the House of Medici. He was a Italian polymath who was a member of the House of Medici.

1500-1600 The Reformation

Principal events

The Reformation brought a new dimension to Europe's dynastic wars and social conflicts. As the Hellen states declined, Spain invigorated by wealth from the New World, led the Catholic offensive against England, the Netherlands and the Protestant German princes. Royal authority increased with the decline of papal authority but the religious and political debates, and the new wealth from confiscation of church lands, enabled an eloquent and

powerful middle class to challenge royal power.

European expansion continued. Much of the American coastline and the Far East was reached by all the major powers although only the American civilizations succumbed to the explorers. Japan experienced vigorous expansion and the Moguls brought a stable and flourishing culture to India with the establishment of an extensive empire under Babur and Akbar.

National events

The power of Parliament increased steadily as a series of changes in religious policy and threats from abroad caused the monarchy to rely

increasingly on the support of the newly educated gentry class. In the same period, the political power of the nobility began to decline.

1500-10

The Italian were provided an

wealthy patronage and the various French kings. 1559 The caused a dec

The Portuguese claimed Brazil and established regular trade with India. 1498 The

Ashikaga prestige in Japan

Henry VII's thrift made

1510-20

Russia took Smolensk from

Charles V 1500-58

Hapsburg Emperor. 1516

Ferdinand Magellan c 1480

Hernan Cortes 148

1520-30

Portuguese traders first

Frederick II of Saxony

Peasant revolts

Babur 1483-1530 founded the

The Medici were driven out

1530-40

Protestantism spread through

Francisco Pizarro c 1471

The Afghan Sher Khan

Suleiman the Magnificent

Henry defied the pope and



Tempietto di S. Pietro



Sistine chapel frescoes: the Birth of Adam



Ottoman Emperor Selim I



Martin Luther



The German Peasants' war

Religion and philosophy

The Protestant Reformation took place in western Europe, arising from objections to many of the doctrines and practices of the medieval Church. Reformers attacked the worldliness of clergy, the selling of intellectual progress and the inability of the Church to provide spiritual leadership. Luther stated that faith alone was the basis of salvation, believing that no intermediary between man and God could alter his salvation. Calvin in

Geneva also rejected the power of his Church to alter who was saved and who damned by God. The general questioning of religious authority gave a new dimension to the already critical question of the relation of Church and state, leading for example in England to rapid changes in official religion. By 1600 the Reformation had spread to almost all of northwest Europe and there were also large numbers of Protestants in France, Poland and Hungary.

Erasmus c 1466-1536 a

Satire church corruption and

Machiavelli 1469-1527

Martin Luther 1483-1526

Sikhism a combination

Literature

The spread of the Renaissance in the sixteenth century brought moments of great brilliance to national literatures, particularly those of England, France, Italy, Spain and Portugal. In England, the work of Wyatt and the Elizabethan poets and dramatists culminated in the genius of Shakespeare, who created a body of lyric poetry and drama of unmatched scope and power.

Rabelais and Montaigne dominated French writing and poets such as Ronsard began the move towards classical themes in French literature. Pastoral idealism found expression in the Riverain Peninsula and Italy and epic poetry flourished. In China the novel form emerged and, in both India and Turkey, Islamic influence revitalized literary traditions.

Commedia dell'arte developed

Vicente

Ulrich von Hutten 1488-1523

Michelangelo in Rome compe

Art and architecture

With the work of Michelangelo, Leonardo, Raphael and Bramante in the early 16th century, Italian Renaissance art reached a climax in the development of perspective, the analysis of the human form and the celebration of classical models. By 1620, however, this peak was past. Mannerism followed with its lack of harmony, distorted forms and search for novelty. Later in the century the naturalistic experiments of Caravaggio and Carracci's re-

assertion of classical canons in new dramatic compositions, pointed towards a new style. Baroque Italy remained the official arbiter of taste in Europe, but the styles were more readily absorbed by the still-solidly Catholic France and Spain. In the Protestant north the Reformation replaced Church patronage with that of merchants, encouraging the growth of secular art forms. Exploration in the New World carried European art abroad.

The Renaissance reached its

Leonardo da Vinci 1452-1519 painted the Mo

Michelangelo 1475-1564 also in Florence

Donato Bramante

Music

The growing Protestant Church in Europe redefined the liturgy for its own use and sacred music began to be performed by lay people in church and in their homes, widening the base of reli-

gious music. City councils and individual patrons established their own groups of musicians, raising instrumental music to the same status as choral music.

The single or solo line

T.B. von Hohenheim Paracelsus

The telescope

Science

A scientific revolution began in Europe in the 16th century and with it a long-held conception of the nature of the universe died. The century began with the later work of Leonardo da Vinci - a series of brilliant inventions which came to little because the scientific principles needed to realize them were hardly known and culminated in Kepler's exact scientific calculations based on Copernicus' idea of a Sun-centred universe and the precise astronomical observations of Tycho Brahe.

This work finally destroyed the Aristotelian picture of the universe as a group of perfect crystal spheres canting on and revolving about the Earth, and opened the way for Galileo.

Advances were also made in medical science, particularly in anatomy, chemistry, larger scale iron production and mining technology. Despite opposition from the Church, by 1600 science was firmly based on the experimental method and had turned its back on theology.

Dissection of the human cadaver

A mass production technique

Padua 1537 and shocked the

The Utopia 1516 of Thomas

Machiavelli 1469-1527

Martin Luther 1483-1526

Sikhism a combination

Vicente

Ulrich von Hutten 1488-1523

Michelangelo in Rome compe

Donato Bramante

The Renaissance reached its

Leonardo da Vinci 1452-1519

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Michelangelo 1475-1564

Donato Bramante

The Renaissance reached its

Leonardo da Vinci 1452-1519

Luther was excommunicated

Machiavelli 1469-1527

Martin Luther 1483-1526

Sikhism a combination

Vicente

Ulrich von Hutten 1488-1523

Michelangelo in Rome compe

Donato Bramante

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Leonardo da Vinci 1452-1519

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The Renaissance reached its

Leonardo da Vinci 1452-1519

The Anabaptists who prophes

Machiavelli 1469-1527

Martin Luther 1483-1526

Sikhism a combination

Vicente

Ulrich von Hutten 1488-1523

Michelangelo in Rome compe

Donato Bramante

The Renaissance reached its

Leonardo da Vinci 1452-1519

Michelangelo 1475-1564

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Michelangelo 1475-1564

Donato Bramante

The Renaissance reached its

Leonardo da Vinci 1452-1519

1500-1550
Jean Calvin 1509-64, from
 1541, a powerful Calvinist leader

The Catholic Counter-Reformation

Brittany 1532-47, a French province

The Portuguese 1500-1542, when the Jesuit **Francis Xavier** 1506-52 founded a

The sale of the monastic lands

Edward VI 1537-53, a

Mary 1551-58, a



'Charles V' by Titian

Jean Calvin 1509-64, from
 1541, a powerful Calvinist leader

Decree issued by the Council of Trent on Church reform in 1545

Thomas Cranmer 1489-1533, a

Le Péladeau a group of seven French poets, when the great poet **Pierre de Ronsard** 1524-85, a French poet, was the first

Joachim du Bellay 1519-58, a

French Renaissance art

Rossa 1500-1550, a

Vignola 1528-52, a

Barlo 1475-1554, a

Montaigne 1533-58, a

Mannerist painting in Italy, when the **Madonna with the Long Neck** 1534-6 by **Girolamo Parmigianino** 1503-40 shows

The lute 1500-1550, a

Secred polyphony 1500-1550, a

A Sun-centred universe was proposed in 1543 by **Nicolas Copernicus** 1473-1543, but not until 1543, a year of his death, in that his theory of the heliocentric system, with the sun at the center and the planets and moons orbiting around it, was published.

Zoological and botanical

Gesner 1516-65, **Belon** 1517-65, and **Rondelet** 1505-71, were

1550-80
The Peace of Augsburg 1555, a

Philip II of Spain 1527-98, a

Elizabeth 1533-68, a

The influx of American silver to Spain, accumulated in the 16th century, and caused hardship to the poor, but encouraged the rise of

Edward VI 1537-53, a

Mary 1551-58, a



Elizabeth I. Armada jewel

Many English Protestant bishops 1550-1560, a

The Holy Roman Empire acknowledged Catholicism in 1555

Protestantism in Scotland

John Knox 1513-72, a

One of the great comic prose works of world literature, *Don Quixote* by **Miguel de Cervantes** 1547-1616, was completed in 1605 by **Francisco de Rojas** 1567-1628, a

Rebels 1500-1550, a

Verri 1500-1550, a

Palladio 1508-80, designed the style

beginning work 1500-1550, when four porticoes and symmetrical plan, as an example of his search for harmonious proportions

Benin bronze figures of West Africa 1500-1550, a

Secred polyphony 1500-1550, a

Georg Bauer (Agricola) 1494-1555, a

Discoveries of metals in the 16th century, when **Magellan** 1480-1521, a

1500-70
The French wars of religion 1562-98, a

The Calvinist 1500-1550, a

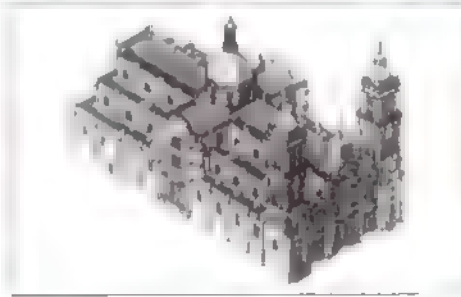
Independence from Spain 1500-1550, a

Nobunaga 1500-1550, a

A dymon 1500-1550, a

Akber 1556-60, a

Under Elizabeth I 1558-1603, a



Renaissance Mexico city cathedra

The adoption of the 39 Articles in 1562, a

Church 1500-1550, a

Shakespeare 1564-1616, a

Walker 1500-1550, a

Edmund Spenser 1552-99, a

Wyatt 1500-1550, a

Thomas Earl of Surrey 1513-47, a

Shakespeare 1564-1616, a

Walker 1500-1550, a

Edmund Spenser 1552-99, a

Flemish painting 1500-1550, a

Bruggel the Elder 1500-1550, a

Indian Mogul art 1500-1550, a

Spanish colonial architecture 1500-1550, a

Japanese music 1500-1550, a

Letter symbols 1500-1550, a

Viola 1500-1550, a

Gerhard Kramer Mercator 1500-1550, a

The potato 1500-1550, a

1570-80
A European alliance 1570-80, a

The Portuguese 1570-80, a

The Dutch provinces 1570-80, a

Drake 1544-95, an English

Calvinists 1570-80, a

The Dutch wars 1570-80, a



The Dutch wars

Jean Bodin 1530-96, a

Michel de Montaigne 1533-58, a

In China 1500-1550, a

John Lyly 1553-86, a

Torquato Tasso 1564-10, a

English drama 1570-80, a

Christopher Marlowe 1562-93, a

Thomas Kyd 1558-94, a

Sir Philip Sidney 1557-86, a

Jorge de Monte 1500-1550, a

The brilliant Momoyama 1570-80, a

Nobunaga 1500-1550, a

Spanish colonial architecture 1570-80, a

Javanese 1570-80, a

Sir Thomas Gresham 1545-1603, a

Chinese pharmacology 1570-80, a

Li Shih-Chen 1545-1606, a

1580-90
Portugal and Spain 1580-90, a

England 1580-90, a

Mary Queen of Scots 1542-87, a

Spanish Armada 1588, a

Pope Sixtus V 1559-69, a

Hideyoshi 1542-1598, a

War was declared 1580-90, a



Benin bronzes 16thc

Akber 1542-1605, a

Din 1500-1550, a

Emperor 1500-1550, a

Aurangzeb 1627-57, a

English drama 1570-80, a

Christopher Marlowe 1562-93, a

Thomas Kyd 1558-94, a

Sir Philip Sidney 1557-86, a

Jorge de Monte 1500-1550, a

English court portraiture 1570-80, a

Longest 1500-1550, a

The Mannerist style 1570-80, a

Springer 1500-1550, a

Fontainebleau School 1500-1550, a

Equal temperament 1570-80, a

Decimals 1570-80, a

Tycho Brahe 1546-1601, a

Johannes Kepler 1571-1630, a

1590-1600
Henry IV 1589-1610, a

Edict of Nantes 1598, a

The Dutch 1590-1600, a

Japan 1590-1600, a

Spanish power 1590-1600, a

Economic depression 1590-1600, a



Work by Caravaggio

A Protestant movement 1590-1600, a

Jacobus Arminius 1560-1609, a

Gomerus 1500-1550, a

The Edict of Nantes 1598, a

William Shakespeare 1564-1616, a

Is You Like 1500-1550, a

The precursors of Italian baroque painting were radically inspired by the Italian

Annibale Carracci 1568-1609, a

Caravaggio 1571-1610, a

Sonata 1570-80, a

Galileo 1564-1642, a

Giordano Bruno 1573-1600, a

1600-1660 Galileo and the new science

Principal events

The political and religious tensions generated by the Reformation in the previous century were brought to a head in the Thirty Years War which involved most of the European powers and left the Holy Roman Empire in particular devastated from constant military activity. Although England remained out of the war, the same conflicts over religion and constitutional authority led to the execution of Charles I in 1649 but the establishment of the Common

wealth proved no solution. Colonial trade expanded throughout the world bringing skirmishes and trade wars in India, America and Europe as the European powers jostled for supremacy, regarding control of trade as a tangible form of political power. In China the Manchu dynasty brought strength and prosperity while Japan withdrew into isolation after experiencing the disruptive impact of Christianity and European trade.

National events

The Protestant gentry objected to the Stuart kings' claim to rule by divine right and to the use of feudal powers to circumvent Parliamentary control.

over royal expenditure. Civil war followed and after the execution of Charles I Cromwell set up a short-lived Puritan Commonwealth.

1600-6

Power struggles in Japan

Charles IX

A period of anarchy in Russia

Boris Godunov

Dmitry

The Gunpowder Plot

James I

1606-12

In Japan

Confucianism

The settlement of the French wars of religion

Henry IV

James I

A regular financial grant

1612-18

The influence of the English East India Company

Persecution of Christianity

The accession of Mikhail Romanov

A group of Tungus tribes

Nurhach

Walter Raleigh

1618-24

The Thirty Years War

Ferdinand II, Emperor

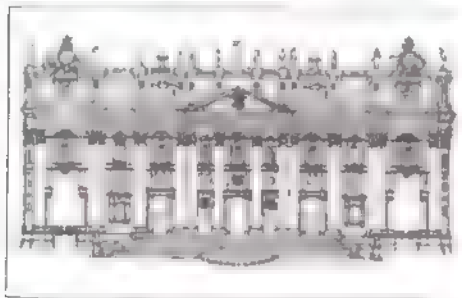
Spanish troops

The Pilgrim Fathers

Batavia

Edward Coke

Francis Bacon's *Advancement of Learning*



Baroque façade of St Peter's in Rome by Maderna

Religion and philosophy

As the basic assumptions and methodology of the natural sciences underwent a dramatic change with Galileo's suggestion that the workings of natural phenomena could be described exactly, philosophical and religious thought was also transformed. Theories of society based on the natural condition of man were common and resulted in the concept of the social contract, which could be renounced if the ruler rejected his duties to his subjects.

Such ideas were used to justify widespread political revolts.

Descartes and Hobbes laid the foundations of modern philosophy by attempting to return to first principles, using only scientific or mathematical tools, and the same reliance on reason brought the beginnings of Deism, which would become popular in the 18th century. In England in the Civil War utopian ideas, religious politics and religious aims abounded.



Defenestration of Prague

Fransiscus Socinus

Polish Unitarian movement

Johannes Althusius

The Tung Yin Academy



'Apollo and Daphne'

John Dee's *Universal Grammar*



The Anatomy Lesson by Rembrandt

Francisco Suarez

Francis Bacon

The Dutch rejected Arminianism

Literature

The Elizabethan age in English literature culminated in the later work of William Shakespeare whose plays and sonnets epitomize the innovation and humanism of the Renaissance. While in Spain Cervantes wrote his picaresque *Don Quixote*. As the century wore on the religious and political conflicts between Royalists and Puritans were reflected in English literature.

ture with the poetry of Marvell and the genius of Milton.

In France an effort to systematize the rules of language and literature was made by the newly founded Académie Française which would stand until the 18th century, and an interest in classical models produced the tightly organized psychological dramas of Corneille and the accomplished verse of Molière.

Miguel de Cervantes

Ben Jonson

Webster's *Tragedy of the City of Dreadful Night* Thomas Middleton's *The Revenger's Tragedy* Dekker's *The Shoemaker's Holiday* Francis Beaumont John Fletcher

Shakespeare's profound tragedies

The English metaphysical poets: John Donne, George Herbert

John Donne

Art and architecture

Baroque art emerged in Italy in the 1600s and reached its peak in the mid 17th century in the works of Bernini, Pietro da Cortona and Borromini. Its stylistic emphasis was on unity of composition, so that the parts were subordinate to the whole, an effect most expertly achieved in sculpture and architecture. Throughout the 17th century Baroque spread from its basically Roman origins to Catholic Europe but had least influence in northern Protestant

countries in spite of the achievement of Rubens and Van Dyck.

Bourgeois Dutch art flourished during the long war of independence from Spain, while native English painting was relatively unaffected by European developments, although Charles I patronised many continental artists. In France the tradition of classicism produced the restrained classicism of Poussin and Claude, while Indian art flourished at the height of Mogul power.

Persian town planning

Painting in China

Tung Ch'ieh-ang

Art and architecture in Mogul India

Jahangir Shah Jehan

Mahal's *The Taj Mahal*

Italian baroque painting

Guido Reni

Peter Paul Rubens

Palladian architecture: Inigo Jones

The baroque style

Bernini's *St. Peter's Square*

Reality, allegory and myth in Rubens' *The Descent from the Cross*

Music

Many of the forms of music current today had their beginnings in 17th century Europe. The suite was developing to provide the basis of the later sonata, and opera and ballet

were evolving from court entertainments. Italy was the centre of the stage, and interest in the solo line pressed forward the development of a new style of madrigal and fine singing styles.

Dances for lutes and consort

Dr. Magnate

William Gilbert

Galileo Galilei

Le Feuille d'Orléans

The telescope

Astronomia Nova

The moons of Jupiter

The violin's role in music

The Art of Glass Making

John Napier

Henry Briggs

Sanctorius

Figured bass

Harmonice Mundi

Francis Bacon

1624-30
England, the United Provinces
In France, Richelieu
French settlements in the West
India

The Tungus Manchus

1630-36
The Dutch East India Company
Guastavus Adolphus
Magdeburg was sacked

The war in Europe

1636-42
After the Shimabara revolt of
France
Spain was weakened by the

England

1642-8
The New England Confed
The Manchus set up the Ta
Ching dynasty at Mus
The English Civil War

France

1648-54
The Peace of Westphalia
The Fronde
Charles I
Oliver Cromwell

Charles was executed
The Navigation Act

1654-60
The rise of Brandenburg and
Russia
The Venetians
Anarchy after Cromwell's death
The war between France
and Spain

Cromwell's dependence on the
army

Charles I
Henrietta Marie

Charles ruled without Par
liament
Thomas Strelford

Charles recalled Parliament
Charles raised the royal stan
dard

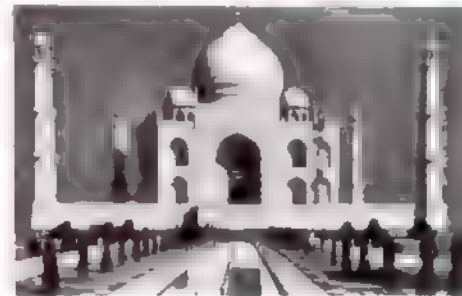
Charles raised the royal stan
dard

Charles was executed
The Navigation Act

Cromwell's dependence on the
army



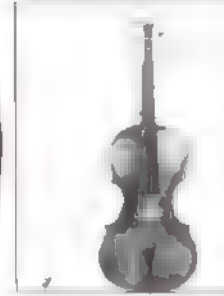
The trial of Galileo



The Taj Mahal



Oliver Cromwell



Late 17thc violin

Herbert of Cherbury
Hugo Grotius

Galileo Galilei
Page after the

Cornelius Jansen
Blaise Pascal

Rene Descartes
George Fox

Utopian social and religious
ideas
Quakers
Diggers

In De Corpore
Theosophy

Hugo Grotius
Pedro Calderon

Galileo Galilei
Page after the

Cornelius Jansen
Blaise Pascal

Rene Descartes
George Fox

Utopian social and religious
ideas
Quakers
Diggers

In De Corpore
Theosophy

Spanish drama was dominated
by Lope
de Vega
Pedro Calderon

The Passion play at Oberammer
gau
The first serious
survivor of the genre was

French writers applied the
classical rules under B
ence
Pierre Corneille

English prose
Me and my boy
Robert Burton

English poetry reflected the
theological
Sir John Suck
ling
Herick
Richard Lovelace

The greatest Dutch poet, Joost
van den Vondel
In Germany
Paul
Gerhardt

Classicism in French painting
Nicolas
Poussin
Realism and the school
of Barbizon

Roman high baroque
Pietro da Cortona
Baroque painting
Anthony van Dyck

Dutch art found its greatest
expression in Rembrandt
Jan Vermeer
The greatest of the baroque
architects, Francesco Borro
mini

French landscape painting
Claude Lorrain
French classical architecture
Francois Mansart
Classical compositions
Georges de la Tour

French classical architecture
Francois Mansart
Classical compositions
Georges de la Tour

Realism and a superlative hand
ling of colour
Diego de Velazquez
Bernini's genius as an architect
The violin was perfected

Fugue developed gradually in
the 17th century

Bel canto
The slide rule

Dynamic markings
Domenico Mazzocchi

Ballad
Evangelista Torricelli

The violin was perfected

The koto

Johann Glauber
William Harvey

Dialogues concerning two
World Systems
Pen drainage

Discours de la Methode
Blaise Pascal

Blaise Pascal
Evangelista Torricelli

The air pump

Christian Huygens
Academie des Sciences

1660-1720 The age of Louis XIV

Principal events

Louis XIV's schemes for the expansion of France brought him into conflict with the major European powers. The spectacle of his rule as an absolute monarch dominated 17th-century European politics, arousing the envy of lesser rulers including James II of England who was expelled in 1688 for trying to emulate him. This second English Revolution finally confirmed the victory of Protestantism and the rule of Parliament which would serve to

inspire the Enlightenment thinkers of the following century particularly in France itself. Outside Europe the major powers fought for colonies valued for their dual role as sources of raw materials and luxury goods like tobacco, sugar and spices and as markets for the produce of the home country. The Mogul Empire in India declined after Aurangzeb had made the dynasty unpopular with his policy of intolerance towards Hinduism.

National events

Attempts by Charles II to establish absolute power and by James II to restore Catholicism led to the Glorious Revolution of 1688. This brought

the final victory of the constitutional idea and the supremacy of Parliament over the monarch. Protestantism was supreme and the rights of the gentry assured.

1666-72

Louis XIV (1638-1715)

Kang Hsi (1654-1722)

The English acquired Bombay

The Spanish colonies

Charles II

Charles II

1666-72

Louis XIV (1638-1715)

The English and Dutch

Russia defeated Poland

The Mogul Emperor Aurangzeb

The English

London was rebuilt
Plague Great Fire

1672-8

The French

Baptiste Colbert

A two-party system emerged

Test Act

1678-84

Brandenburg

Louis XIV

Kang Hsi

The Turks

Mohacs
Robert de la Salle

The Popish Plot



Louis XIV



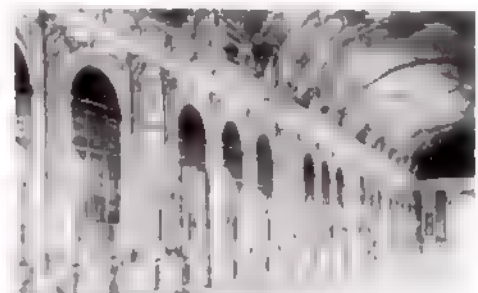
Chinese Emperor Kangxi



Newton's first telescope



Molière



Versailles: the Hall of Mirrors

Religion and philosophy

European theories of knowledge and politics underwent important changes in the latter half of the 17th century. At a time when Newton's revolutionary ideas on the workings of the universe were transforming Western science, in Britain Newton himself, Locke and Berkeley took the empiricist position that knowledge was obtained by experience alone in direct contrast to the rationalist views of thinkers like Spinoza and Leibniz who

argued that knowledge of the world could be obtained by deductions from certain key principles. Like the nature of substance, Empiricism would dominate British philosophy hereafter and was to have a major influence on the thinkers of the French Enlightenment. Among political theorists, Locke and Pufendorf argued that political authority depended upon consent and took the form of a contract between the people and the king.

Mercantilists
Thomas Mun
Jean Baptiste Colbert

The Swede Pufendorf

The Old Believers

Nikon

Spinoza

Ralph Cudworth

Cambridge
Platonist

Jacques Bossuet

Literature

Neo-classical drama, based on logic and Greco-Roman stylistic rules, reached a peak in France in the tragedies of Racine and comedies of Molière. After the comic license of early Restoration drama, English writers such as Dryden also turned to classical models, laying the ground for the Age of Reason. English journalism began with Addison and Defoe.

and satire developed with Pope. The period also saw the publication of the chief work of the two greatest English Puritan writers, Milton and Bunyan, as well as developments in baroque poetry and picaresque prose in Germany and the emergence of new prose and verse forms in France with Le Fontaine. In Japan, Basho emerged as the supreme haiku poet.

German baroque literature

Andreas Gryphius

Hans Grimmeleisen

The Greek unities

Jean Racine
Molière

John Milton

In Mexico
Juana Inez de la Cruz

A forerunner of the English novel

John Bunyan
Madame de La Fayette

Art and architecture

France replaced Italy as the centre of the arts in Europe. They were dominated by the royal patronage of Louis XIV who rebuilt Versailles using the talents of Lebrun, Le Vau, Hardouin Mansart and Le Nôtre. Baroque architecture was at its purest in Italy, at its most restrained in England and at its most extravagant in Spain and Portugal. Painting during the latter half of the 17th century produced few masterpieces though the works

of Murillo in Spain, Pozzo in Italy, Claude in France and the landscapists in Holland were exceptional. In the American colonies architecture and painting adapted European styles to their own conditions.

The Rococo style emerged in France in the late 17th century, bringing to interior decoration the use of swirls, scrolls and conches in design, and finding a stylistic parallel in the elegant paintings of Watteau dealing with life at court.

Spanish painting
Esteban Murillo

The greatest exponent of Baroque: Gianlorenzo Bernini

Dutch landscape painting
Meindert Hobbema

Jacob van Ruysdael

The palace of Versailles

Louis Le Vau

Andre Le Nôtre

The classical landscape tradition
Claude Lorrain

Jules Hardouin Mansart

Christopher Wren

The Poussinists: Rubensists controversy

Andre Felbien

Roger de Piles

Music

Baroque music grew up in Europe in the second half of the 17th century in the princely states of northern Italy and Germany. The free-wheeling melodic lines and firm harmonic structure

in the works of such composers as Diderik Buxtehude (1637-1707) and Johann Sebastian Bach (1685-1750) paralleled the ornamented but firm qualities of Baroque architecture.

The Restoration in England

Henry Purcell

The trio sonata

Isaac Newton

Francesco Redi

A calculating machine

The chorale prelude

Buxtehude

Bach

Greenwich Observatory

The speed of light

Olaus Roemer

A single lens microscope
Antonie van Leeuwenhoek

The calculus

Continuo

Scarlati

Alessandro

The pressure cooker
Denis Papin

John Ray

1684-90
The Edict of Nantes granting freedom of worship to Huguenots in France, was revoked by Louis XIV in 1685. Many Huguenots emigrated.
Russian eastward expansion led to conflict with China, 1683-9.
James II of England (r. 1685-8) was expelled for trying to restore Catholicism. **The Bill of Rights** (1689) confirmed a constitutional monarchy.
In Japan, the Genroku year period, 1688-1704, saw the rise of a merchant class.

James II attempted to bring a Catholic restoration and was expelled by an alliance of the landed gentry and merchant classes in 1688.



St. Paul's Cathedral

Isaac Newton (1642-1727) published the *Principia* in 1687. He defended the role of a gravitational force by arguing that science should merely establish observed regularities, without speculating about underlying mechanisms. His view that the same set of laws comprehended both the ad of the physical sciences, aside throughout the universe was fundamental to the development of the mechanistic and optimistic philosophy of the 18th century.

The French poet Jean de La Fontaine (1621-95), read his *Fables* on Tuesdays to the Académie in 1684. His verse *Fables*, begun in 1668, conveyed human insights through the old tradition of animal stories.
In Japan, the succinct three-line poetic form called *haiku* reached a peak in the poetry of **Matsuo Bashō** (1644-94).

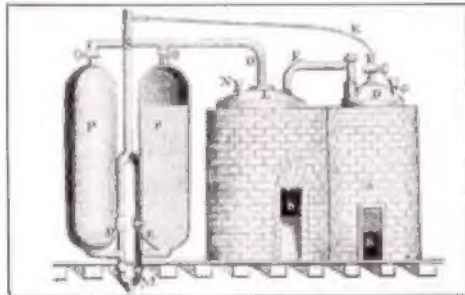
The arts in France under Louis XIV were dominated by **Charles Lebrun** (1619-90), who was director from 1663 of the French Academy and was also responsible for the *Versailles Galerie des Glaces*, completed 1684, and the *Salons de la Guerre* and *de la Paix*, 1686.
Venetian architecture was represented by the *Sta Maria della Salute*, 1687, by **Baldassare Longhena** (1598-1682). It was classical in conception but told Baroque overtones.

Baroque composers' awareness of modulation through a cycle of fifths brought more harmonic interest to their music, but tonal problems grew when harmony wandered far from the home key.

Newton's *Principia*, probably the most important book in science, was published in 1687. The first section deals with the behaviour of moving bodies and enunciates Newton's three laws of motion, as well as the principles of gravitation. The second deals with the motion of bodies in fluids, and the third with the motion of the principles expounded in the earlier sections to explain the motion of bodies on the Earth and in the universe. It was a revolutionary conception.

1690-96
William of Orange (r. 1689-1702), who married jointly with his wife, James II's daughter **Mary**, brought England into the war against France.
Peter the Great (r. 1699-1725) began his policy of Russian expansion towards Asia by an outlet to the Black Sea and opened western Europe.
English trade in India grew and a factory was set up in Calcutta in 1690.
European sugar traders competed in the West Indies.

William III (r. 1689-1702) defeated James II at the **Boyne** in Ireland, 1690. **The Bank of England** was founded, 1694, to finance William's wars.



Thomas Savery's steam engine

John Locke (1632-1704) presented the first thorough empirical study in *An Essay Concerning Human Understanding*, 1690. He denied the existence of innate knowledge, arguing that the mind was a "tabula rasa" (a blank slate) that was only filled in by sensory experience. His *Two Treatises on Government*, 1690, which justified the English Revolution of 1688, claimed that rulers' legitimacy depended on their protecting the citizens' rights.

Restoration English drama, dominated since 1660 by the influence of the poet, critic, satirist and playwright **John Dryden** (1631-1700), culminated in *Love for Love*, 1695, by **William Congreve** (1670-1729). This comedy of manners impressed on the comedies of **William Wycherley** (1640-1718), whose bawdy play *The Country Wife*, 1695, reached popular morals.

Spanish Baroque style in architecture was derived from the works of **José Churriguera** (1665-1725), whose east end of *St Eusebio*, Salamanca, 1690, shows the extravagant surface decoration and richly gilded ornament called *Churriguera*.
The leading exponent of the Baroque style of illusionist decoration in Italy was **Andrea Pozzo** (1642-1709), whose ceiling of *S. Ignazio*, Rome, (1691-4), was a masterpiece of perspective and trompe l'oeil.

The concerto was developed by **Arcangelo Corelli** (1651-1713), and efforts as a concerto grosso for a group of instruments and a soloist, or a virtuoso solo, performed by a soloist.

Christiaan Huygens (1629-95), a Dutch physicist, put forward a wave theory of light, 1690. Newton at this time proposed a particle theory. Later science would prove them both right.

1696-1702
Charles II of Spain died in 1700, leaving **Philip, Duke of Anjou**, and grandson of Louis XIV, as heir to his lands. This led to the **War of the Spanish Succession**, 1702-13. Hungary was reconquered from the Turks and by 1699 was restored to Austrian control.
Frederick II, the Elector of Brandenburg, assumed the title King of Prussia with the consent of the emperor and became **Frederick I of Prussia** (r. 1701-13).

The Stock Exchange was founded, 1698. The uncertainty of the war gave the *Tobacco* a monopoly in the Commons, 1701.

Govind Rai (1666-1708), the tenth Guru of the Sikh religion, began a strategy of armed resistance to Mughal persecution and in 1699 gave the common surname *Singh* meaning "lion" to the Sikhs. He also introduced the strict practices of the Sikhs, who were pledged to wear a turban, to carry a knife and never to cut their hair. The Sikhs eventually dominated the Punjab.

John Dryden ended a fruitful career with *Fables Ancient and Modern*, 1699. He also wrote a significant political satire on *Macbeth* and *Shamela*, 1696, and *Amphigouri*, 1696. His clear, elegant and polished style influenced many, including **Samuel Butler** (1612-80), whose *Hudibras*, 1663-78, was a satire on Puritanism. *For Love* was Dryden's best poem.

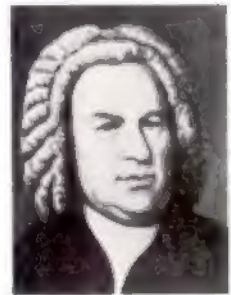
Baroque architecture in England was exemplified in *Castle Howard*, designed by **John Vanbrugh** (1664-1726), from 1699. He worked with **Nicholas Hawksmoor** (1661-1733), on his and other buildings. **The beginnings of the Rococo style** were seen in the "sacred quiet" and "gentleness" designed by **Jean Bérain** (1640-1711), and **Claude Audran** (1658-1734).

Fugues in organ music were often paired with a free composition for contrast, giving the prelude and fugue or toccata and fugue found in many works by **Buchtehude** and **Bach**.

The first practical steam engine was invented, 1699, by **Thomas Savery** (1650-1715), a British engineer. **Thomas Newcomen** (1663-1729), another British engineer, invented the atmospheric steam engine, used until 1804 to pump water from mines. Both engines had a great drawback: the cylinder had to be cooled at each stroke, wasting 99% of the heat from the fuel.
Agriculture was improved by sowing seeds in rows with a drill invented in 1701 by **Jethro Tull** (1674-1741) in England.

1702-8
The French won control of the streets of Madrid in 1702, which allowed them to transport fugitives to the Spanish crown as **Portugal** crossed the Atlantic against France, seeing as a battle for open ports in Spain, 1703.
The Duke of Marlborough (1650-1722) defeated the French at *Blenheim*, 1704.
After Aurangzeb's death in 1707, the Mughal Empire disintegrated as local princes asserted their autonomy, seeking assistance from European traders.

England and Scotland were formally united, 1707. England won Gibraltar in 1704, after coming to a trading agreement with Portugal in 1703.



Johann Sebastian Bach

In *The Grumbling Hive* (1709), **Bernard de Mandeville** (1670-1733) argued that all individual actions are motivated by self-interest, but the net effect of many such actions is the general good. This idea influenced later *laissez-faire* economists.
The Earl of Shaftesbury's *Letter concerning Enthusiasm* (1709) helped to popularize **Deism**, or Natural Religion. Deists proposed human reason, experience and extension.

English journalism arose to satisfy the new middle class market. **Daniel Defoe** (1660-1731), journalist, novelist, merchant and spy, issued the *Review*, 1704. **Richard Steele** (1709), and **Joseph Addison** (the *Spectator*, 1711), *Address* and *Steele* were in London and formed a close relationship on literary, political and social issues of the period.

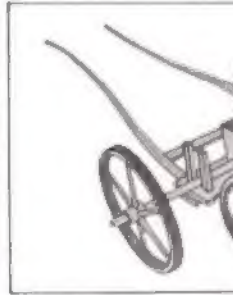
The grandeur and formal design of Versailles were emulated throughout Europe in the 18th century with the founding of *St Petersburg*, Russia, 1703, and in England at *Blenheim Palace*, 1709, built for the Duke of Marlborough by **Vanbrugh**.

German suites by **Bach** and others moved from forms such as prelude and toccata with dance forms such as allemande, sarabande, minuet, gavotte and gigue.

Opticks, published by **Newton** in 1704, encapsulated his work on light. His particle theory of light held great value for a century before Huygens's wave theory was revived.
Edmond Halley (1656-1742), British astronomer, proposed the dark sun comets orbit the Sun and, using Newton's principles, correctly predicted in 1705 the return of the comet that now bears his name.

1708-14
The Sikhs became militant and made the Punjab virtually independent of Mughal rule, 1708.
A mass emigration of Germans to America began in 1709.
War between the native Brazilians and the Portuguese erupted after France attacked Rio de Janeiro in the course of the Spanish War of Succession.
The Treaty of Utrecht, 1713, confirmed that France and Spain should not be united and left Britain, in spite of the *Asiento* slave trade.

The Tories formed a government, 1710, and reduced involvement in the war. They also tried to exclude merchants from Parliament.



Jethro Tull's seed drill

In *The Principles of Human Knowledge* (1710), **Bishop Berkeley** (1685-1753), starting from the belief that all knowledge must come from perception, went beyond Locke and argued for an extreme idealism. He claimed that all we perceive is in the mind alone. As a result, he said, is merely to be perceived, and thus the continuing existence of the external world depends on God's continual perception of it. Berkeley thus hoped to relate *esse* to *percipi* (to be to be perceived).

European artists, like Gustavus Hesselius (1660-1725), from Sweden, settled in Philadelphia in 1711 and executed religious paintings and history paintings. **A triumph for Rubenism** was evident in the vast ceiling of the *Chapel at Versailles*, 1708, by **Antoine Coyne**, 1681-1722, which is in the manner of Roman baroque illusionism.

The pianoforte was invented. It is usually ascribed to the Italian **Bartolommeo Cristofori** (1655-1731), who in 1709 built a studied hammer action for the harpsichord's striking action.

Jesuit missionaries made an accurate map of China, 1708.
High quality iron was produced in 1709 by **Abraham Darby** (1677-1717), a British iron worker. The iron was smelted with coke and moulded in sand for cheap production, making the cast iron steam engine an economic proposition.
Francis Hawkes, an Englishman, made the first accurate observations of capillary action in glass tubes in 1709.
Prussian blue, a coloured dye, was produced from 1710.

1714-20
The South Sea Company was set up in 1710 to increase British trade with South America.
The English East India Company won trading concessions over rival companies from the Mughal emperor in 1717.
Frederick William of Prussia (r. 1713-40) laid the foundations of Prussian military power by setting up a standing army.
Louis XIV died in 1715, with France's economy exhausted.
Manchu rule in Tibet was assumed by 1715.

George I (r. 1714-27) supported Jacobite risings in Scotland, 1715.

The metaphysical views of **Gottfried Leibniz** (1646-1716) were turned up in the *Monadology*, 1714. He saw the universe as comprising an infinity of "monads", dimensionless entities endowed with souls, in pre-established harmony with each other. Leibniz held that God had chosen this as the best of all possible worlds and that the evil in it was necessary. He was worried of infinity in symbols logic.

The tradition of the picaresque novel (troubling exploits of an adventurer), which derived from Spain, was used by **Alain Le Sage** (1668-1747), in his *Gil Blas*, 1735.
The romantic Japanese dramatist Chikamatsu Monzaemon (1653-1725) wrote *Love Suicides*, the last of many successful plays both in *kabuki* (long scenes) and *joruri* (puppet) forms.

The "fête galante", a new genre of painting characterized by exquisite scenes of pleasure and dance, was introduced by **Antoine Watteau** (1684-1721), in the *Dejeuner sur l'herbe* (the *Feast of Cythera*), 1717.
The first phase of the Rococo in France (1700-20), largely in sculpture and interior design, was exemplified in the *Apartment of Gilles Marie Oppenordt* (1672-1742), designed about 1715 and showing twisting figures, shells and scrolls.

Italian became the usual operatic language in Europe, though France still kept its own opera. **Georg Friedrich Handel** (1685-1759) composed Italian operas in England after 1719.

The mercury thermometer was invented in 1714 by **Gabriel Fahrenheit**, a German physicist, 1686-1736.
Jethro Tull brought the horse-drawn seed drill from France.
Thomas Lombe (1688-1739), an Englishman, patented a machine to make thread in 1718.

1720-1760 Reason and the Enlightenment

Principal events

A series of dynastic and trade wars overtook Europe, adding to the growing conflict between centralized monarchical authority, the nobility and the newly strong mercantile class. In France the supremacy of the monarch over the nobles broke down, producing political stalemate. In Prussia, Russia and Portugal, however, the liberal ideas of the Enlightenment were harnessed to the growth of royal absolutism and industrial reform.

National events

In this period of Whig oligarchy, the constitutional roles of cabinet and prime minister were evolving. Commercial growth was encouraged by the

The English moved inland in India into the vacuum of the collapsing Mogul Empire, prized both for the value of its produce and the quality of its culture. Here they competed successfully with the French despite the unwillingness of the English government to take on imperial responsibility. At the same time the American colonies, whose economies were beginning to grow, were becoming impatient with Britain's rigid mercantilist policies.

1720-4

The English South Sea Company and the French Missions d'Inde, which had both aimed to restore royal finances collapsed in 1720.

The Pragmatic Sanction

1713, establishing the neutrality of Austria-Hungary, was accepted in 1720. In North America, Spain occupied Texas, 1720-2, to prevent a French invasion and the Piedmont region was colonized by Swabians, Germans and Saxons.

1724-8

Peter the Great of Russia died, 1725, having encouraged industrial growth, centralized the administration and subdued the nobility.

The ministry of Fleury

1713, in France began 1726, introducing a period of peace and economic growth which led to a strengthening of the middle classes.

The Russian border with China

was fixed in 1727.

1728-32

The Anglo-Spanish War, 1727-8, failed to end the long struggle between England's protestantism and Catholicism.

Anna, 1730-40

Empress of Russia, founded the Corps of Cossacks to encourage the nobles' participation in administration.

By the Treaty of Vienna

1731, the Holy Roman Empire dissolved the Central European Company, England's political ally in central Europe and her friend.

1732-6

England prohibited trade between her American and West Indian colonies by the Molasses Act of 1733.

War over the succession

1733-6, weakened Poland, Georgia (the last of the English colonies, was founded in 1733).

The French Compagnie des Indes

was firmly established in 1735.

Class distinctions

between the merchant and nobility groups in Japan became blurred during a long period of economic decline.

government's fiscal policy and, with the increasing population and new agricultural techniques, prepared the ground for the Industrial Revolution.

Robert Walpole, 1686-1745

Became Britain's first prime minister, 1721. His policy of keeping a permanent national debt brought prosperity.

George II, 1727-60

Assigned to govern the former opposition to George I. He was much influenced by his wife, Caroline of Ansbach.

Agricultural enclosures

were beginning to increase the production of food to meet a demand for the growing urban population.

Walpole's attempt to introduce

excise duty on wine and tobacco, 1732, brought great wealth, but the Tories were too weak to overthrow him.



Gulliver's Travels

Religion and philosophy

The influence of English empiricist ideas on the philosophical tradition stemming from Descartes led to the great intellectual development known as the French Enlightenment. Montesquieu, Voltaire, Rousseau and other "philosophes" who contributed to the French *Encyclopédie* believed in the power of reason and knowledge to liberate man from restrictive political and religious systems. On religious questions these thinkers tended towards deism

Literature

European literature was dominated by the critical spirit of the Age of Reason expressed in the work of essayists and satirists such as Pope and Swift in Britain or Voltaire and Montesquieu in France, where polemical writing was in the ascendant. The same desire to grasp social reality, found expression in the English novel, whether in the vein of a new



Dutch East Indiaman

or even atheism, and accepted a materialist conception of the universe. In politics they were liberals. Montesquieu sought to classify social systems and analyse their function. The Physiocrats laid the foundation of scientific economics. Others such as Condillac elaborated the basic ideas of materialist philosophy.

In Britain David Hume showed how empiricism could lead to an extreme scepticism.

Christian Wolff, 1679-1754, a follower of Leibniz, made rationalist and idealist more philosophically credible. In Germany Pietist Pietists engaged his reputation from the University of Halle in 1723, but he later became its chancellor.

Baal Shem Tov, c. 1700-60, founded Hasidism in Poland. This vibrant orthodox movement within Judaism stressed the joy of religious practice and expression, and rejected academic formalism and ostentatiousness.

realism, with Defoe or Fielding, in the psychological studies of Laurence Sterne or the picaresque novels of Smollett. In Italy, Goldoni's comedies began a parallel move in the theatre away from stock characterization and towards a greater realism.

The basis of modern Russian poetry was established by Lomonosov.

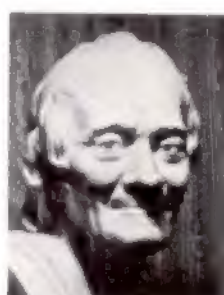
Daniel Defoe, 1660-1731, a prolific writer and one of the founders of modern journalism, turned to fiction disguised as fact and revealed a powerful imagination in his novels, including *Robinson Crusoe*, 1719-20, and *Moll Flanders*, 1722, also noted for their highly moralistic disquisitions.

Easter Island was discovered by the Dutch, 1722. Archaeologists have since been baffled by the significance of, and building methods used to erect, the huge stone statues found there. Austrian art reached its peak in the architecture of palaces, churches and monasteries, especially those of **Lukas von Hildebrandt**, 1686-1745. Known as "Austrian Baroque", this style with its bold shapes and lavish decoration paved the way for late German Baroque.

Traité de l'harmonie, 1722, by **Jean Philippe Rameau**, 1683-1764, provided the foundations of harmonic thought for two centuries, with its clear statement of the function of tonality.

Smallpox inoculations were first administered in the West during an epidemic in 1721, when **Zabdiel Boylston**, 1679-1766, inoculated 240 persons, of whom all but six suffered.

Plant physiology was founded by the publication of *Vegetable Statics*, in 1727, by **Stephen Hales**, 1677-1761. Measuring plant growth and soil preparation, Hales realized that it is necessary for plants to have



Marble bust of Voltaire

Giambattista Vico, 1668-1744, an important forerunner of the modern social sciences, wrote his *Scienza di Universal Law*, 1725-1, and introduced them later in his masterpiece, *The New Science*, 1725.

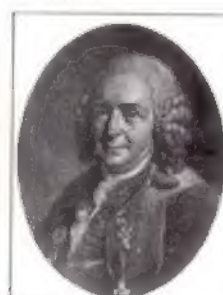
Vico held that societies pass from a brutish stage through a physical stage ruled by an arbitrary will, to a stage where men are equal. He wanted that men was ruled wholly not of his best self and might always regress into barbarism.

Jonathan Swift, 1667-1745, poet, journalist and churchman, published *Gulliver's Travels*, 1726, a highly imaginative satire on mankind. Swift wrote Britain's abusive essay, *The Beggar's Opera* by John Gay, 1693-1732, was first played in 1728. It was a parody of Italian opera and a satire on the aristocracy to create a new style of political satire.

Indian art was in decline with the collapse of the Mogul Empire and European architects and styles began to be introduced in colonial spaces, including Bombay where St Thomas Cathedral was built. Catholic Bavaria accepted Indian baroque forms, which in the late work of **Balthasar Neumann**, 1687-1753, took on an almost rococo lightness. His church at Vierzehnheiligen, 1743-72, is richly painted in pink, gold and white.

Light opera emerged in Germany when **Reinhard Keiser**, 1674-1739, wrote operas with catchy tunes. He wrote a comic opera in 1726 which used spoken dialogue rather than recitative.

The chronometer was developed from 1726 by John Harrison, 1693-1776, an Englishman, by adaptation as a long clock could be taken into any time. He invented the compensating pendulum, so that his chronometers would keep perfect time in whatever climate they were used. **Plant physiology** was founded by the publication of *Vegetable Statics*, in 1727, by **Stephen Hales**, 1677-1761. Measuring plant growth and soil preparation, Hales realized that it is necessary for plants to have



Carl Linnaeus

Voltaire, 1694-1778, returned to France in 1729 after a year spent in England. His letters to philosophers, 1734, advocating the empiricism of Isaac Newton and John Locke and the merits of the English political system, had a great influence on the French Enlightenment. Voltaire was a deist, and an active clerk fighting for the rights of those who in both religion and politics

German ideas of the Aufklärung (Enlightenment) were summed up in *Christoph Dietrich*, 1730, a comic work by the playwright **J. C. Gottsched**, 1700-60. He argued that the German mind must discard models and that to produce a classic, the best policy of F. G. Klopstock, 1724-1803, who took Greek verse as his model, anticipated Romanticism.

Palladianism, a revival of interest in the restrained classicism of Vitruvius, Palladio and his English follower Inigo Jones, marked an English reaction against Baroque. It was promoted by **Colen Campbell**, 1676-1729, and taken up by **Lord Burlington**, who encouraged **William Kent** in 1748, and **Isaac Ware**, 1716-1768, who was the first Chinese garden to be appreciated there.

Virtuoso players such as **Antonio Vivaldi**, c. 1675-1741, advanced the techniques of their instruments and led to a distinction between music for professional and amateur players.

Stellar aberration, a change in the position of stars caused by the Earth's motion, was described in 1729 by an Englishman, **James Bradley**, 1693-1767. This was the first astronomical confirmation of Copernicus' theory that the Earth moves around the Sun. **Cobalt** was discovered in 1730 by **George Brandt**, 1694-1766, a Swedish chemist. **The reflecting quadrant**, a form of the sextant, aided navigation. It was invented in 1730 by **John Hadley**, 1692-1741.



House of Menander, Pompeii

In his *Treatise on Human Nature*, written from 1724 to 1737, **David Hume**, 1711-76, argued that man's nature is susceptible to that knowledge which is attainable. He said that once corrected, there was no doubt that Hume held that the basis of moral judgement was man's subjective reaction of approval or disapproval of the effects which flow from himself and others.

The Italian **Scipione Maffei**, 1675-1735, published his model study of the history of Voltaire's *Vestire l'uomo* in 1732. **Montesquieu**, 1689-1755, a leading French thinker and satirist, wrote his *Considerations of the Grandeur of the Romans and their Decline*, 1734, an outstanding piece of moral political analysis.

Venice took the lead in Italian art with the painting of **Giovanni Tiepolo**, 1696-1770, and **Antonio Canaletto**, 1697-1768. **Servandoni**, 1695-1766, began work on the facade of San Saba in Venice, 1732. It relied on antique arch-tecture and heralded a reaction against Baroque.

Religious cantata and oratorio were developed on a grand scale by **Georg Friedrich Handel**, 1685-1759, to embrace all musical techniques but with the use of operatic staging.

Systema Naturae was published by Carl Linnaeus, 1707-78, a Swedish naturalist, in 1735. He defined the hierarchy between species and formed the basis of classifying plants and animals, and species and genera, classes and orders. **The flying shuttle** (see *invention*) in England in 1733 by **John Kay**, 1704-84. **Rubber** was found in South America by **Charles Marie de la Condamine**, 1701-74, while on expedition to measure the curvature of the Earth, 1735.

Frederick the Great
(top), Emperor of
Prussia and (bottom)
the Battle of Prague,
1757, in the Seven
Years' War.

